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CAROLO SPEGAZZINI

FUNGI PUIGGARIANI

PUGILLUS I

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1889

FUNGI PUIGGARIANI

AUCTORE

CAROLO SPEGAZZINI

(Italo)

Pugillus I

PRAEMONITUM

Apiahy, provinciae Sancti Paoli Brasiliae meridionalis, oppidulum est jucundissimum, collibus uberrimis montibusque sylvosis circumcinctum, aëre purissimo, cielo, altitudinis caussa, modice calido atque parce humido donatum.

Fungi, quos nunc (vix nonnullis anno 1881 in quarto Argentinorum fungorum pugillo editis) publici juris facio, ex ejusdem regione, nec non e finitimis *Iporanga Xiririca* et *Iguapé*, omnes provenientes, a praeclaro medicinae Doctore Johanne Puiggari, Barcinensi, ob suas fanerogamarum cryptogamarumque pulcherrimas collectiones notissimo, lecti fuerunt; et ego strenuissimo scientiae Vexillario sedulissimoque naturae Inquisitori palam gratias quam maximas ago.

Opellum, quod hoc tempore Collegis offero, species saepius difficillimas permultas novas v. criticas sistens, admodun im-

perfectum est, sed certissimus fere sum omnes illud humanissime accipient.

Carolus Spegazzini.

La Plata, 1 Jan. 1889.

HYMENOMYCETEAE Fr.

AGARICINEAE Fr.

1. Lepiota bonaerensis Speg. — Fung. arg. pug. II, n. 1.
Hab. In pratis humosis prope *Apiahy*, Jun. 1881 (sub n. 1529 B).
Obs. Specimina brasiliensa siccitate nonnihil obliterata sed a typo vix recedentia tenacitate majore fere marasmiacea; an *L. pardinae* (Mntgn.) Sacc. identica? Sporae ovoideo-ellipticae utrinque obtusae (13-15 × 9-10 μ), granuloso-farctae, hyalinae.

2. Lepiota imperialis Speg. (n. sp.)
Diag. Solitaria, coriacella; pileus conoideo-umbonatus, e cinerascenti cervinus, umbone obscuriore, squamulis maculiformibus minutis confertiusculis fuscis dense variegatus; lamellae albo-subcinerascentes; stipes rectus pileo concolor, glaber, teres basi non v. vix incrassatus, anulo supero candido membranaceo amplo mobili ornatus; sporae ovoideae, hyalinae.
Hab. In campis sylvaticis prope *Apiahy*, Apr. 1888 (sine n.).
Obs. Procerus (10″ alt.); pileus primo conico-ovoideus, dein sub hemisphaerico-expansus. (4-5″ dm.), centro majuscule umbonatus, pallide sordideque e cinereo cervinus, minute adpresseque araneoso-pruinulosus, umbone laevi glabro e testaceo fuscescente, squamulis minutis

triangulari-sublinearibus adpressis fusco-testaceis, marginem versus parcissimis, densiuscule vestitus; caro alba subexsucca tenuis vix centro incrassatula; lamellae densae, lanceolatae, antice obtusae, postice longiuscule attenuato-acutatae (25''' lg. × 2, 5''' lt.), subcollariatae, a stipite remotae membranaceo-subcrassiusculae, acie integerrimae, in vivo albo-pallescentes, in sicco e pallescenti subcinerascentes; stipes erectus rectus teres (4–5''' crs.) fistulosus laevis glaber, in juventute albo-pallescens, per aetatem sordide obscureque cinerascens, basi non v. vix incrassatus, ad tertium superum anulo mobili amplo (5–6''' lt.) membranaceo candido integro crenulato ornatus, ima basi mycelio laxe albo-araneoso terram quisquiliaque involvente radicatus; sporae ovatae sursum obtusae postice lateraliter apiculatae (12 × 6 μ), grosse 1-guttulatae, hyalinae. Species pulcherrima distinctissima mox dignoscenda!

3. Lepiota oedipus Speg. (n. sp.)

Diag. Solitarius, magnus; pileus hemisphaerico-campanulatus, cervinus, dense, umbone excepto, radiatim ac subreticulatim albo-rimulosus; lamellae albae; stipes rectus, fistulosus, pileo concolor, dense longitudinaliter striatulus, pruinuloso-pulverulentus, basi abrupte grosseque bulboso-incrassatus ac pallescens, anulo supero mobili carnoso-submembranaceo magno albo ornatus; sporae ovoideae, laeves, hyalinae.

Hab. Vulgatus in campis post pluvias prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Procerus (25-26'' alt.); pileus primo ovatus, dein hemisphaerico-explanatus (8-10'' dm.), majuscule obtuseque umbonatus, pallide cervinus, glaber, dense minuteque, umbone excepto, radiatim albo-rimulosus, rimulis aliis transversis strictioribus saepe reticulato-junctis, margine obtusus integer; caro alba subexsucca tenuiuscula

vix in umbone incrassata; lamellae confertae, tenuissime membranaceae, lanceolatae, antice obtusae postice longe attenuato-acutatae (40-50‴ lg. × 5-7‴ lt.), acie integerrimae, subcollariatae, a stipite remotiusculae, albae; stipes erectus, rectus, teres (10‴ crs.) late fistulosus, ad partem superam pruinuloso-pulverulentus, pileo concolor v. vix pallidior atque dense minuteque longitudinaliter striatus, deorsum glabratus pallescens basique abrupte majusculeque bulboso-incrassatus (20-30‴ crs.); anulus superus, mobilis, amplus, membranaceo-subcarnosus, albus, primo integer, dein lacerus saepeque pilei margine frustulatim adhaerens; sporae ovatae leniter inaequilaterales, antice obtusae, basi apiculatae, grosse 1-guttulatae, in vivo hyalinae, in sicco pallidissime subfulvescentes (16 × 7-8 μ).

4. Armillaria mellea Vahl. = Sacc., Syll. hym. I, p. 80.

Hab. Ad truncos subputrescentes in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1539).

Obs. Specimina nonnihil senescentia ac obliterata, a typo nullo modo tamen separanda; sporae e globoso-ellipsoideae (9-11 × 7-9 μ), in sicco e hyalino pallidissime subfulvescentes.

5. Armillaria Puiggarii Speg. (n. sp.)

Diag. Collybia anulata, coespitosa; pileus primo umbonatus, dein hemisphaerico-explanatus, pallide melleus, glaber, laevis; lamellae ex albo fulvescentes, sinuato-adnatae; stipes teres, deorsum incrassatus, tortus, albus glaber, basi fasciculato-connatus; sporae globoso-ovatae, hyalinae.

Hab. Ad truncos vetustos subputrescentes prope *Apiahy*, Jul. 1881 (sub n. 1532).

Obs. Pileus primo conoideo-ovatus, dein hemisphaerico-expansus (12-16‴ dm.), per aetatem plus minusve applanatus ac umbonatus, margine integer, e fulvescente

melleus, laevis glaber; caro alba subsuccosa tenuis (1–2''' crs.); lamellae confertiusculae, membranaceae subtenues, antice attenuato-acutatae, postice adnato-subsinuatae (4–5''' lg. × 0,5–1''' lt.) saepe denticulo minuto subdecurrentes, albae v. pallidissime fulvescentes, acie integerrimae; stipes teres incurvulus (30–50''' lg.), antice attenuatus (2''' crs.), postice obclavato-incrassatus (5''' cras.), basique 3–20 connato-coespitosus, extus albo-fulvescens, glaber laevis v. saepius eximie *fibroso-tortus*, intus albus farctus v. strictissime subfistulosus; anulus albus ad quartum v. quintum superum stipitis adnatus, minutus submenbraneceus, lacerus saepe mox evanescens; sporae e globoso ovoideae inferne minute apiculatae (9–10 × 7–8 μ), non v. granuloso-farctae laeves, in vivo hyalinae, in sicco perdilute fulvescentes.

6. Armillaria procera Speg. (n. sp.)

Diag. Pileus submembranaceus, hemisphaerico-expansus, ex albo fulvescens, centro primo umbonatus, dein depressulus infuscatusque, minute adpresseque squamulosus, margine striatulus, per aetatem rimosus; lamellae albo-pallescentes, latae, decurrentes; stipes badio-rufescens, minute adpresseque fibrillosus, basi saepius incrassatus, superne anulo amplo albo membranaceo fisso ornatus; sporae ovoideo-ellipticae, hyalinae.

Hab. Ad truncos dejectos putrescentes prope Apiahy, Jul. 1888 (sub n. 2901-2).

Obs. Coespitosus; pileus primo ovatus v. conoideus plus minusve umbonatus, dein explanatus (3-8'' dm.), centro saepius depressulus, in juventute dense minuteque furfuraceo-subsquamulosus, per aetatem subglabratus, radiatim grosse parceque rimoso-fissus, margine glaber striatulus, medio fusco-rufescens ambitu pallescenti-subfulvus; caro flocculosa alba vix ad centrum evoluta; lamellae subconfertae membranaceae polymacriae latae (4-5''' lt.),

antice attenuato-acutatae, postice adnato-decurrentes, acie integrae, e pallescente albae saepius albo-farinosulae; stipes incurvulus teres, utrinque incrassatulus (5–7'' lg. × 5–8''' crs.) e fulvescente rufescens v. castaneus, superne pallescens ac anulo amplo patulo-descendente, tenui-membranaceo, margine saepius crenulato ornatus, inferne longitudinaliter dense minuteque fibrilloso-furfurellus, basi saepius subbulbosulo-incrassatus, connato-coespitosus; sporae ovoideae laeves (8–10 × 6–7 μ), hyalinae granuloso-farctae. Species pulchella pileo lamellisque in sicco subpellucidis, summopere hygroscopica, subtenacella, *Arm. mellea* Vahl. nec non *Arm. millo* Sow. peraffinis, ab utraque tamen satis riteque distincta.

7. Clitocybe coprophyla Speg. (n. sp.)

Diag. Cyathiformis; pileus irregulariter infundibularis, cinerascens glaber laevis; lamellae subconfertae e carneo cinerascentes decurrentes; stipes rectus erectus compressulus ex albo cinerascens glaber laevis; sporae ovoideae hyalinae.

Hab. In fimo vetusto subputrescente in sylvaticis uliginosis prope *Apiahy*, Aug. 1881 (sub n. 1619).

Obs. Solitarius v. laxe gregarius; pileus primo hemisphaerico-umbilicatus dein subcyathiformis (20–30''' dm.), margine repandulus undulatus e membranaceo carnosulus sordide obscureque cinerascente glaber laevis integer, in sicco obsolete minuteque concentrice rugulosus; caro tenuis exsucca alba; lamellae arcuato-lineares (1-1,5''' lt.) utrinque attenuatae postice decurrentes e cinereo subroseolae, acie integerrimae ac subfuscescentes, membranaceae confertiusculae; stipes teres v. compressulus (40–50''' lg. × 4–5''' crs.) erectus rectus deorsum saepius v. utrinque (rarius medio tantum) incrassatulus, intus e farcto fistulosus intus albus extus tenacellus rigidulus glaber lae-

vis v. substriatus ex albo subcinerascens postice pallescens ac incrassatus (7-8''' crs.), mycelio araneoso albo parco radicatus; sporae ovoideae (8–10 × 5–6 μ), inaequalaterales non v. 1-guttulatae laeves hyalinae. Species nobilis *Cl. cyathiformi* Fr. atque *Cl. vespertilionis* Brk. cognata, ab utraque tamen satis recedens.

8. Clitocybe catinus Fr. — Sacc., Syll. hym. I, f. 174.

Hab. In sylvis herbosis prope *Apiahy*, Aug. 1881 (sub n. 1568).

Obs. Vix a typo recedit statura minore; sporae ovatae (8–9 × 5 μ) hyalinae.

9. Clitocybe vespertilio Berk. — Sacc., l. c. f. 177.

Hab. In sylvis muscosis ad terram prope *Apiahy*, Maj. 1881 (sub n. 1568).

Obs. Specimina puiggariana ejusdem statum juvenilem facillime sistunt; pileus cyathiformis (25–30''' diam.) repandulus cinerascenti-fuscus, radiatim majuscule striatus hinc inde subrimosus; stipes rectus erectus teres (40–50''' lg. × 2''' crs.) deorsum incrassatulus (5–6''' crs.) pileo pallidior laevis glaber; lamellae arcuato-lineares decurrentes (15''' lg. × 1''' lt.) laxiusculae ex albo sordide pallescentes; sporae desideratae.

10. Clitocybe collybioides Speg. (n. sp.)

Diag. Pileus cyathiformis tenui membranaceus sordide albus radiatim fibrilloso-striatus; lamellae adscendentes lineares angustae confertae vix subdecurrentes albae; stipes rigidulus tenacellus pileo concolor glaber laevis ad pilei confluentiam, caeterum albo-pruinulosus; sporae ovoideo-ellipsoideae hyalinae.

Hab. Ad folia dejecta putrescentia coacervata in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Solitarius v. laxe subgregarius; pileus infundibularis

v. cyathiformis (25''' dm. × 12-15''' alt.), submembranaceus dense minuteque radiato-striatus fibrillosus v. subsquamulosus sordide albescens; lamellae lineari-adscendentes confertae strictiusculae (1''' lt.), acie integrae ex albo pallescentes utrinque attenuatae, in stipite non v. vix subdecurrentes; stipes erectus rectus (40–60''' lg. × 1,5–2''' crs.) glaber laevis rigidulus tenacellus subfistulosus apice in pileum expansus, sub pileo pulchre incrassatulus atque albo-farinosulus, basi non v. vix subincrassatus parcissime albo-myceliferus; sporae ovoideae v. ellipticae (10–11 × 5–6 μ) leniter inaequilaterales, laeves, eguttulatae hyalinae. Species habitu collybioideo naturaque submarasmiacea conspicua.

11. Clitocybe buccinula Speg. (n. sp.)

Diag. Pusilla alba tenacella; pileus infundibuliformis laevis glaber margine reflexulus; lamellae subremotae lineares adscendentes; stipes rectus farctus glaber laevis subfuscescens; sporae ovoideae hyalinae.

Hab. Ad terram nudam argillaceam prope *Apiahy,* Apr. 1888 (sub n. 2885 b).

Obs. Solitaria v. saepius geminata; stipes ex albo subfuscescens rigidulus tenacellus teres erectus (10''' lg. × 0,5-1''' crs.) sursum leniter incrassatus abrupte in pileum expansus glaber laevis; pileus membranaceus rigidulus cyathiformis (5''' alt. × 5-6''' dm.) laevis glaber, margine integer v. vix undulatus inflexulus; lamellae lineares subplicaeformes subcrassiusculae subremotae acie obtusae integrae, utrinque attenuatae in stipite leniter decurrentes; sporae ovoideo-inaequilaterales (10 × 6 μ) granuloso-farctae hyalinae. Species minutula *Cl. pacificae* Speg. nonnihil vicina sed praedistincta.

12. Clitocybe macromphala Mntgn.? — Sacc., l. c. f. 182.

Hab. Ad terram uliginosam muscosam in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus membranaceus in sicco subtremelloideo-pellucidus, cyathiformis (25–30‴ diam.) sulcato-striatus, glaber laevis repandulus; lamellae crassiusculae latae (12–15‴ lg. × 3–5‴ lt.) distantes postice subsinuatae, denticulo adnato-decurrentes; stipes teres (20 ‴ lg. × 4–5‴ crs.) fistulosus pileo concolor subtremelloideo-pellucidus, basi glabratus; sporae globosae (4–6 μ) hyalinae. Specimina puiggariana senescentia ac satis obliterata, *Cl. hymenodi* Lév. habitu affinia, ad hanc speciem dubiose relata!

13. Clitocybe Puiggarii Speg. (n. sp.)

Diag. Laccaria; pileus hemisphaerico-umbilicatus, rufescenti-fulvescens, laevis, glaber, ad marginem dense striato-rimosus; lamellae crassae subremotae albo-pallescentes; stipes teres fistulosus superne albus glaber deorsum pallescens ac pruinulosus; sporae globosae verruculosae hyalinae.

Hab. Ad terram muscosam in pratis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Solitaria; pileus primo hemisphaerico-umbilicatus dein explanatus v. subcyathiformis (20–30‴ dm.), margine repandulus submembranaceus, e fulvescente rufescens, centro glaber laevis ambitu dense majusculeque striato-rimulosus; lamellae arcuatae utrinque subattenuatae, antice rotundatae postice adnato-decurrentes (10‴ lg. × 2-3‴ lt.) membranaceo-crassiusculae albo-pallescentes subfarinosulae, acie integerrimae; stipes rectus erectus (30–40‴ lg. × 3-4‴ crs.) teres laevis glaber non v. vix basi subincrassatus; sporae globosae (8–10 μ) dense minuteque verruculosae grosse 1-guttulatae, hyalinae.

14. Clitocybe pulchella Speg. (n. sp.)

Diag. Laccaria, pusilla rosea v. cinerascenti-violascens: pileus hemisphaerico-umbilicatus, glaber laevis margine subinvolutus; lamellae strictissimae distantes crassiusculae;

stipes utrinque subincrassatus basi mycelio albo-tomentosulo vestitus radicatusque; sporae globosae verruculosae hyalinae.

Hab. Ad ramenta putrida in sylvis prope *Apiahy*, Jun. 1882 (sub n. 2369).

Obs. Pileus hemisphaericus centro plus minusve depressus v. umbilicatus (5-6''' dm.) non v. vix radiatim striatus e cinerascente roseus v. subfulvescens pruinula glaucescente adspersus, margine (in sicco) involutus, membranaceus rigidulus; lamellae remotae lineares crassiusculae subplicaeformes utrinque attenuatae, postice vix decurrentes, acie obtusae integrae pileo concolores; stipes rectus erectus teres (6-10''' lg. × 0,5''' crs.) utrinque non v. vix subincrassatus e fuscescente roseo-violascens, deorsum albo-pruinulosus, mycelio albo-tomentosulo radicatus; sporae globosae (6-8 μ) leniter denseque verruculosae hyalinae. Species tenacella submarasmioidea *Cl. laccatae* Scop. ac *Cl. echinosporae* Sp. peraffinis, ab utraque satis riteque distincta.

15. Collybia subfumosa Speg. (n. sp.)

Diag. Pileus e convexo umbilicatus glaber laevis fusco-pallescens; lamellae strictiusculae confertae ex albo cinerascentes; stipes elongatus flexuosulus fibroso-striatus pileo pallidior albo-pruinulosus; sporae non visae.

Hab. Ad basin truncorum in sylvis prope *Apiahy*, Maj 1888 (sub n. 2914).

Obs. Coespitosa v. subsolitaria; pileus primo hemisphaericus dein convexulo-expansus (25-30''' dm.), margine incurvulus (in sicco subinvolutus), centro plus minusve umbilicatus laevis glaber, in sicco dense minuteque concentrice ruguloso-crispatus, pallide e fusco fulvescens integer; caro alba subexsucca centro crassiuscula (3-4''' crs.) ambitu evanescens; lamellae membranaceae strictae (1''' lt.) confertae polymacriae utrinque attenuatae subadscen-

dentes non v. vix decurrentes ex albo cinereae, acie integerrimae ac pallidiores; stipes incurvus teres rigidulus pallescens tenacellus (30-50''' lg. × 4-5''' crs.), extus dense fibriso-striatus, glaber v. pruinula alba detersili adspersus, basi subincrassatus atque pulverulento-velutinus, intus fibroso-farctus. Species e carnosulo lenta pulchella habitu inter *Clitocybes* atque *Pleurotos* media, lamellarum natura tamen *Collybiis* melius adscribenda.

16. Collybia? latifolia Speg. (n. sp.)

Diag. Pileus applanatus subcarnosulo-membranaceus pallide fulvescenti-cinnamomeus, substriatus pruinulosus; lamellae tenuissime membranaceae confertae pro ratione latissimae candidae; stipes rectus rigidus tenax badius deorsum pruinulosus; sporae ovatae, hyalinae.

Hab. Ad ramenta foliaque dejecta putrescentia in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus applanatus (20-25''' diam.) plus minusve convexus v. concaviusculus, margine integer, centro depressulus, obscure striatus pruinula densissima adpressa pallide fulvescenti-cinnamomea vestitus; caro vix centro evoluta alba exsucca; lamellae antice attenuato-acutatae postice truncato-v. sinuato-adnatae confertissimae tenuissime membranaceae, latae (10''' lg. × 3-4''' lt.) polymacriae acie integrae albae (in sicco) pallescentes; stipes teres flexuosulus (30-40''' lg. × 1-1,5''' crs.) tenax durus sublignosus badius, sursum glaber deorsum rufescenti-pulverulentus fistulosus; sporae e globoso ovatae (4-5 × 2,5-4 μ) inaequilaterales hyalinae. Species pulchella gracilis tenax marasmioidea.

17. Collybia apiahyna Speg. (n. sp.)

Diag. Pileus convexo-umbilicatus glaber pallescens laevis; lamellae subconfertae strictiusculae utrinque attenuatae dente adnatae fusco-pallescentes; stipes longissimus gra-

cilis badius fistulosus laevis deorsum sensim incrassatus ac ferrugineo-pruinulosus.

Hab. Ad folia nec non strobilos dejectos putrescentes *Araucariae brasiliensis* in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2911).

Obs. Laxe gregarius; pileus submembranaceus primo hemisphaericus dein convexo-expansus (5-10''' dm.), centro depresso-umbilicatulus ex albo pallescens glaber v. vix subpruinulosus laevis, margine integer incurvulus non v. obscure substriatus; lamellae confertiusculae membranaceae strictiusculae (0,5''' lt.) subarcuato-lineares polymacriae antice acutato-attenuatae postice attenuato-adnatae, acie integrae primo albae dein fusco-pallescentes; stipes elongatus rectus erectus gracilis (50-100''' lg.) e badio castaneus opacus laevis sursum glaber attenuatus (0,5-1''' crs.) deorsum incrassatulus (1-2,5''' crs.) ferrugineo-pulverulentus, basi pallescens, fistulosus, rigidulus, tenacellus; sporae non visae.

18. Collybia? perstrictifolia Speg. (n. sp.)

Diag. Parvula, marasmiacea, cinerascens; pileus e convexulo umbilicatus pallide testaceo-cinerascens laevis pulverulentus; lamellae confertissimae strictissimae tenues albae; stipes flexuosus subfistulosus cinerascens glaber v. subpulverulentus; sporae ovoideae hyalinae.

Hab. Ad ramenta *palmarum?* putrescentia in campis prope *Apiahy*, Aug. 1880 (sub n. 1579-80).

Obs. Solitaria; pileus orbicularis integer primo convexulus dein centro depressulus v. subumbilicatus e carnosulo membranaceus (5-12''' dm.), lentus, cinerascens pruinula cervina tenuissima vestitus; lamellae lineares, tenues confertissimae strictissimae utrinque attenuatae subsinuatae polymacriae acie integerrimae albae v. in sicco pallidae; stipes erectus rectus teres (35-45''' lg. × 1''' crs.) rigidulus tenax fistulosus pileo concolor, deorsum non v.

canescenti-pruinulosus, basi incrassatus sed saepius mycelio parco subferrugineo strigosule ornatus; sporae ovoideo-inaequilaterates (10 × 6 μ), laeves, granuloso-farctae, hyalinae. Species *Marasmiis* proxima, lamellarum tamen natura *Collybiis* adscripta.

19. COLLYBIA? VIOLACELLA Speg. (n. sp.)

Diag. Pileus orbicularis tenui-membranaceus subpellucidus glaber striato-subsulcatus violaceus; lamellae remotae crassiusculae adnatae rugis transversis densis junctae; stipes erectus rectus tenuis sordide fusco-violascens glaber laevis; sporae e globoso ovoideae hyalinae.

Hab. Ad folia dejecta coacervata putrescentia in sylvis prope *Apiahy*, Maj. 81 (sub n. 1542).

Obs. Solitaria, inodora; pileus tenui-membranaceus subpellucidus rigidulus fere tremelloideus (in sicco), convexulus v. applanato-expansus (12–15‴ dm.) centro e depresso subumbilicatus, margine subcrenulatus acutus rectus, glaber, laevis, modice laxeque radiatim costulatus in vivo pulchre violaceus, in sicco pallide fulvescens: lamellae remotae substrictiusculae (0,5–0,8‴ lat.) crassiusculae subpellucidae, pileo vix pallidiores, antice attenuatae postice acute adnatae v. denticulo subdecurrentes, polymacriae, rugis v. plicis transversis centro crebriusculis majusculisque marginem versus gradatim remotioribus ac tenuioribus regulariter fenestratim junctae; stipes teres gracilis rectus (60–70‴ lg. × 1–1,5‴ crs.) sordide fusco-violascens, opacus rigidulus subfistulosus glaber laevis apice non v. vix incrassatus, ima basi nodulosus ac mycelio parcissimo albicante vestitus: sporae ovoideae (6–7 × 4–5 μ) inaequilaterales, 1-guttulatae, laeves, hyalinae. Species pulcherrima *Col.? hymeniicephala* Speg. affinis, satis tamen distincta, generi *Heliomyceti* accedens.

20. MYCENA PUNICELLA Fr.? — Sacc., l. c. f. 257.

Hab. Ad terram muscosam in sylvis umbrosis roridis prope *Apiahy*, Mart. 1888 (sub n. 2879).

Obs. Specimina nonnihil obliterata, magnitudine summopere ludentia, a typo base stipitis pallescenti-alba nec viridi-atra praecipue recedentia; sporae ovoideae v. ellipticae (8-9 × 4–5μ), laeves, hyalinae.

21. Mycena erythrella Mntgn. — Sacc., l. c. f. 262.

Hab. Ad terram muscosam in uliginosis sylvaticis prope *Apiahy*, Aug. 1880 (sine n.).

Obs. Pileus 10-20''' dm; lamellae 1–1,5''' lt. acie perdilute purpurascentes; stipes 30-35''' lg. × 1-2''' crs. A typo recedit pileo pallidiore ac subfuscescente, lamellisque deorsum attenuatis apicem stipitis attingentibus. Sporae ellipticae v. ovoideae (7–8 × 4–5 μ), laeves, hyalinae.

22. Mycena pileum-turcicum Mntgn. — Sacc., l. c. p. 274.

Hab. Ad terram muscosam in uliginosis prope *Apiahy*, Maj. 1881 (sub n. 1493).

Obs. Specimina apiahyensia formam pusillam sistunt; pileus 3''' lt. × 3''' alt.; stipes 20''' lg. × 0,5''' crs.; sporae elliptico-globosae (5–6 × 4–5 μ) laeves hyalinae.

23. Mycena atro-purpurea Mntgn. — Sacc., l. c. f. 274.

Hab. Ad terram muscosam in sylvis roridis prope *Apiahy*, Jun. 1881 (sine n.).

Obs. Pileus hemisphaericus 10''' lt. × 6–7''' alt.; stipes 30–35''' lg. × 1–1,5''' crs.; fungus totus pulchre obscureque fusco-coccineus, lamellis vix pallidioribus; sporae ex ovoideo subglobosae (7-8 × 4-5 μ) laeves, hyalinae.

24. Mycena subsaccharifera Speg. (n. sp.)

Diag. Pusilla, albida, granulis nitentibus obsita; pileus hemisphaerico-umbilicatus tenui-membranaceus; lamellae arcuato-decurrentes tenues remotiusculae acie granulosae

albae; stipes filiformis albus basi vix incrassatulus atque puberulus; sporae ovatae laeves hyalinae.

Hab. Ad ramenta dejecta putrescentia prope *Apiahy*, Jun. 1888 (sub n. 2908).

Obs. Pileus tenuissime membranaceus primo hemisphaerico-subglobosus pulverulento-fuscidulus, dein convexo-expansus (2–4''' dm.) plus minusve profunde umbilicatus granulis paucis minutissimis (centro praecipue) subfuscescenti-succineis nitentibus adspersus, margine non v. vix sulcato-striatus, integer; lamellae pileo concolores v. pallidiores, utrinque attenuatae, postice acute adnato-decurrentes subremotae strictiusculae tenuiusculae, acie obtusulae integrae granulis pellucido-subsuccineis nitentibus ornatae; stipes elongatus rectus gracilis (10–15''' lg. × 0,5''' crs.) albus glaber laevis basi insititius non v. vix bulbillosus ac albo-pruinolusus; sporae ellipticae v. ovatae (10 × 4-5 μ) inaequilaterales laeves hyalinae. Species lamellis postice decurrentibus *Omphaliis* accedens, *M. sacchariferae* B. et Br. tamen peraffinis, a qua recedit pileo umbilicato stipite longiore sporisque majoribus.

25. Mycena capillaris Schm. — Sacc., l. c. f. 303.

Hab. Ad folia ramulosque dejectos putrescentes in sylvis prope *Apiahy*, aut. 1888 (sub n. 2462).

Obs. Specimina brasiliensia varietatem pileo dilute cinerascenti-roseo sporisque ellipticis submajoribus (10 × 6 μ) laevibus hyalinis donatam sistunt.

26. Hiatula subcoespitosa Speg. (n. sp.)

Diag. Pallescens, coespitosula; pileus subhemisphaericus tenuissimus sublaevis, subpulverulentus; stipes glaber validulus; lamellae angustissimae subplicaeformes inter se remotae, longiores stipitis apicem attingentes.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1647).

Obs. Pileus hemisphericus (5–15''' dm.) ex albo pallescens in sicco subcinerascens, primo saepe umbonatus ac pulverulentus dein depressulus v. subumbilicatus, tenuissime membranaceus subpellucidus glaber sublaevis, margine integer incurvulus; lamellae inter se remotissimae, subplicaeformes subcrassiusculae utrinque attenuatae pileo pallidiores postice apice stipitis adnatae v. denticulo vix subdecurrentes; stipes erectus rectus v. subcurvulus validulus utrinque incrassatulus (10-15''' lg. × 1-1,5''' crs.) fistulosus, pileo concolor v. vix obscurior deorsum coespitoso-connatus, glaber laevis; sporae elliptico-ovatae (6 × 3 μ) leniter inaequilaterales, utrinque acutiusculae, laeves, hyalinae. Species 5–20-coespitosa e rimis ligni putridi erumpens, *H. coespitosae* B. et C. cognata, sed cum speciminibus typicis comparata satis recedens. *Mycena phylloclada* B. et C. est species facillime *Hiatulis* adscribenda et *H. coespitosae* B. et C. etiam peraffinis, secundum specimina quae mihi adsunt.

27. Omphalia? brasiliensis Speg. (n. sp.)

Diag. Coespitosa; pileus tenuis convexo-umbilicatus umbone parvulo in depressione ornatus, laevis glaber, sordide pallescens; lamellae albae confertae latiusculae adnato-subdecurrentes, interstitiis venulosis; stipes teres incurvulus pileo concolor utrinque incrassatulus laevis glaber; sporae elliptico-ovoideae laeves hyalinae.

Hab. Ad caudices vetustos muscosos in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2881).

Obs. 3–10-coespitosa; pileus tenuis subpellucidus primo subhemisphaericus dein convexulo-explanatus (10-25''' lt.), centro abrupte profundeque umbilicatus (depres. 1–4''' dm.), in depressionis centro saepius umbone parvulo donatus, laevis glaber in vivo albus?, in sicco sordide pallescens, margine rectus tenuissimus integer; lamellae subconfertae membranaceae, acie integrae latae (1,5–2'''

lt.), antice acutatae, postice adnatae plus minusve decurrentes pallescentes (in vivo albae?); stipes tenuis mediocris (20–30‴ lg. × 1,5–2,5‴ crs.), pileo concolor fistulosus glaber laevis basi connatus; sporae subinaequilaterales (5–6 × 2–2,5 μ), granuloso-farctae, laeves, hyalinae.

28. Omphalia? cupreo-virens Speg. (n. sp.)

Diag. Coespitoso-fasciculata; pileus orbicularis umbilicatus subcarnosulus virescens laevis glaber; lamellae confertae strictae pileo vix pallidiores arcuato-decurrentes; stipes elongatus sursum teres cupreo-virens deorsum incrassatulo-connatus pallescens glaber laevis; sporae laeves, hyalinae.

Hab. Ad ligna cariosa mucida in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. 5-20-fasciculato-coespitosa; pileus primo hemisphaericus dein convexo-expansus (4–8‴ dm.), centro depressus v. umbilicatus, subcarnosulus laevis glaber e pallescente virescens, fibrillis minutis ambitu confertioribus obscure virescentibus (in sicco testaceo-rufescentibus) notatus, margine primo incurvulo dein recto explanatoque donatus; lamellae strictissimae confertae, acie integerrimae, utrinque attenuato-acutatae, apicem stipitis attingentes ac plus minusve decurrentes; stipes elongatulus (30–50‴ lg.) sursum teres gracilis (1–1,5‴ crs.) cupreo-virescens (in sicco subtestaceo-purpurascens), rectus, deorsum sensim incrassatulus (2,5–3‴ crs.) dealbatus, basi coespitose connatus, glaber laevis; sporae globosae (5 × 4 μ) inferne apiculatae, laeves, hyalinae.

29. Omphalia fibula Bull. — Sacc., l. c. f. 331.

Hab. Ad ligna emarcida muscosa in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2368).

Obs. Specimina formam pusillam pileo 4–5‴ dm., stipite 10–15‴ lg. × 1‴ crs., sporis ellipsoideis (4–5 × 2–3 μ) laevibus hyalinis donatam sistunt.

30. Pleurotus submutilus Speg. (n. sp.)

Diag. Clitocybiarius; pileus subcarnosulus excentricus infundibulari-dimidiatus glaber laevis v. vix margine substriatus (25''' dm.) fulvus; lamellae postice decurrentes ferrugineo-fulvae; stipes sordide albescens glaber laevis sursum teres deorsum sensim incrassatus; sporae laeves hyalinae.

Hab. Ad terram humosam in sylvis prope *Apiahy*, Jun. 1881 (sine n.).

Obs. Solitarius; pileus infundibulari-subspathulatus (25''' dm.) ex uno latere tantum bene evolutus, ex altero non v. vix productus, tenuis, fulvus glaber laevis v. vix ambitu subtiliter striatus, margine acutiusculo recto repandulo donatus; lamellae confertiusculae polymacriae strictae (1''' lt.) acie integrae, utrinque attenuato-acutatae, postice decurrentes, pulchre fulvo-ferrugineae; stipes erectus rectus e fulvescente albescens (20''' lg.) apice teres (2''' dm.) pallescens, deorsum sensim incrassatus, (3''' crs.) glaber laevis, basi abrupte rotundatus, mycelioque parcissimo albo-puberulo radicatus, subfistulosus; caro pilei stipitisque alba; sporae subellipticae (6–7 × 3-4 μ) inaequilaterales laeves hyalinae. Species nobilis *Pl. oleario* Fr. atque *Pl. mutilo* Fr. affinis, ab utraque tamen satis distincta.

31. Pleurotus brasiliensis Speg. (n. sp.)

Diag. Tricholomatarius; pileus centralis carnosulus convexus laevis glaber laete fulvo-lateritius v. rufescens; lamellae adnatae confertae albae; stipes incurvus teres albus laevis glaber; sporae laeves hyalinae.

Hab. Ad corticem truncorum putrescentium in sylvis prope *Apiahy* Maj. 1888 (sub n. 2886-88).

Obs. Solitarius v. saepe subcoespitosus; pileus primo hemisphaerico-umbonatulus dein explanato-expansus (20–40''' dm.) non v. parce subumbilicatus, carnosulus laevis

glaber, margine integro incurvulo ; caro alba succosa parum evoluta; lamellae membranaceae confertae polymacriae latiusculae (1–2''' lt.) antice attenuatae postice adnatae, acie integerrimae albae v. vix pallescentes ; stipes incurvulus teres (20–30''' lg. × 2–4''' crs.) glaber laevis albus basi non v. parce incrassatus ac saepius tenuiter albo-puberulus v. subhispidulus, intus e farcto cavus albus; sporae subsphaeroidae v. ovoidae (4–6 × 4 μ), laeves, non v. 1-guttulatae hyalinae. Species *Pl. ulmario* Bull. affinis satis tamen distinctus.

32. Pleurotus commiscibilis B. et C. — Sacc., l. c. f. 353.

Hab. Ad truncos dejectos putrescentes in umbrosis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Species pulchella rigidula tenacella et forsam statum juvenilem *Pani laciniato-crenati* Speg. sistens, alba glabra; pileo dimidiato-spathulato repando-lobato carnosulo ; stipite obconico plus minusve evoluto crassiusculo concolore laevi ; lamellis subconfertis membranaceis latiusculis decurrentibus albis ; sporis ellipsoideis (8–10 × 3,5–4,5 μ) laevibus hyalinis.

33. Pleurotus pulmonarius Fr. — Sacc., l. c. f. 362.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1534).

Obs. Dimidiatus, solitarius v. subcoespitosus; pileus horizontalis e reniformi spathulatus (30-60''' dm.) carnosulus laevissimus glaber ex alutaceo fulvescens, margine incurvulus non v. vix striatulus, postice in stipite brevissimo crassiusculo villosulo albo productus; caro alba flocculoso-succosa ; lamellae subconfertae polymacriae, utrinque attenuatae, postice decurrentes, crassiuscule membranaceae, latissimae (2–4 lt'''.), acie integrae ex albido lividae; sporae ellipsoideae (9–11 × 3-4 μ) laeves hyalinae.

34. Pleurotus submitis Speg (n. sp.)

Diag. Dimidiatus; pileus orbiculari-cordatus, carnosulus, postice depressus alutaceus laevis glaber; lamellae confertae utrinque attenuatae concolores; stipes breviusculus teres glaber pallescens; sporae globosae hyalinae.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1881 (sine n.).

Obs. Solitarius; pileus tenui-carnosulus orbiculari-convexulus (10''' dm.) postice depressus ac profunde sinuato-cordatus emarginatus, laevis glaber, margine integro obtusulo, pallide e pallescente fulvus; caro compactiuscula rigidula alba; lamellae confertiusculae dimacriae, tenui membranaceae, acie integrae, ventricosulae (1''' lt.) utrinque attenuatae, postice subsinuato-decurrentes, pileo concolores v. vix obscuriores; stipes horizontalis teres (1-5''' lg. × 0,5-1''' crs.) albescens primo pulverulento-fulvellus, dein glaber laevis albus in pileo ad centrum usque productus adnatusque; cystidia magna obtuse lanceolala (60-75 × 15-18 μ, cum stipite) hyalina; basidia clavulata (25-30 × 8 μ) laevia hyalina; sporae globosae (4-6 μ), laeves, hyalinae non v. 1-guttulatae. Species pusilla *Pl. miti* Pers. affinis.

35. Pleurotus lichenicolus Speg. (n. sp.)

Diag. Resupinatus; pileus excentrice suborbicularis, e latere sinuato-cordatus, dorso adfixus membranaceus, albo-cinerascens, puberulus laevis; lamellae subconfertiusculae utrinque attenuatae albae; sporae ellipsoideae laeves hyalinae.

Hab. In *Usnea* quadam ad truncos prope *Apiahy*, Jun. 1881 (sine n.).

Obs. Solitarius v. hinc inde 3-5-gregarius; pileus membranaceus hemisphaerico-cupulatus (4-8''' dm.) orbicularis v. reniformis, margine incurvulus integer repandulus laevis, primo cinerascens dense minuteque pulverulento-

pruinulosus dein subglabratus albus, dorso puncto minuto adfixus ; lamellae e puncto subcentrali pilei radiantes confertiusculae, utrinque attenuatae, membranaceae pro ratione sublatiusculae (0,5–0,8''' diam.), acie integerrimae albae, in sicco pallescentes; sporae ellipsoideo-ovatae, (8-10 × 5-6 μ) crassiuscule tunicatae, laeves, hyalinae. Species pulchella *Pl. lilliputiano* Mntgn. peraffinis, sed satis distincta videtur.

36. Pleurotus Puiggarii Speg. (n. sp.)

Diag. Pilei effuso-reflexi dense gregarii carnosuli alutace superne crebre lamelloso-hirti ; lamellae confertiusculae crassiuscule membranaceae latiusculae pileo pallidiores decurrentes ; sporae ellipsoideae laeves hyalinae.

Hab. Ad corticem truncorum putrescentium in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2560).

Obs. Pilei plus minusve dense gregarii late effuso-reflexi v. dimidiato-spathulati, saepe imbricati v. utrinque inter se connati, polymorphi unguiculati flabellati etc., (5-20''' dm. trans. × 4-10''' dm. ant.-post.) horizontales in vivo carnoso-molles, in sicco subtenacelli rigiduli, superne sub applanati ac laminulis radiantibus densis subcrassiusculis alutaceo-fulvis antice dilatatis bifidisque laciniis plus minusve elongatis rectis subsubulatis apice obtusis vestiti, interstitiis pallescentibus minutissime puberulis ; caro alba compacta flocculoso-succosa ; lamellae polymacriae confertae, ventricosae (1-2''' lt.), lanceolatae, membranaceae, antice obtusiuscule acutatae, postice attenuato-decurrentes, ac ima basi saepe confluentes, acie integrae v. subdenticulatae ex albo pallide alutaceae ; sporae ellipsoideo-cylindraceae (8–9 × 4-5 μ) laeves hyalinae. Species eximia pulcherrima *Polysticto Hariotiano* Speg. habitu simillima !

37. Marasmius candidus (Bolt.) Fr. — Sacc., l. c. f. 533.

Hab. Ad ramulos dejectos putrescentes in dumetis prope *Apiahy*, Jun. 1888 (sine n.).

Obs. Forma stipite capillari elongato (10–15''' lg.), pileo convexulo subumbilicatulo (2''' dm.) laevi, lamellis subdecurrentibus donata, ad *M. petiolorum* B. et C. vergens.

38. Marasmius hematocephalus Mntgn. — Sacc., l. c. f. 540.

Hab. Ad ramenta dejecta putrescentia in sylvis prope *Apiahy*, Aut. 1881-88 (sine n.).

Obs. Species pulcherrima! Pileus rubro-sanguineus, hymenium, in vivo, flavum, in sicco roseo-pallescens. Sporae non visae.

39. Marasmius decurrens Mntgn. — Sacc., l. c. f. 549.

Hab. Ad folia dejecta putrescentia in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Species pulchella *M. capillipede* Sacc. et *M. sphaerodermo* Speg. fere intermedia. Sporae non visae.

40. Marasmius polycladus Mntgn. — Sacc., l. c. f. 553.

Hab. Ad cortices truncorum putrescentium in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2465).

Obs. Species *M. trichorhyzo* Speg. peraffinis, pileo tamen obscuriore lamellis pallidioribus mycelioque magis simplice recedens.

41. Lentinus crinitus Fr.—Sacc., l. c. f. 576.

Hab. Ad truncos dejectos putrescentes prope *Apiahy*, Aut. 1881-88 (sub n. 1505).

Obs. Specimina puiggariana a typo nonnihil deflectunt et saequenti accedunt. Pileus infundibuliformis (40–50''' dm.) margine integer involutus, tenuis (0,5''' crs.) coriaceus rigidus centro subglabratus sordide fuscescens, ceterum dense minuteque substriato-fibrillosus, ambitu longe laxeque pilosus, pilis flexuoso-subcircinatis, pulchre in-

tenseque castaneus v. fusco-testaceus; lamellae confertae, latiusculae ($2'''$ lt.), membranaceae, rigidulae, acie acutatae minute denseque denticulato-erosulae, e fuscescente v. cinerascente pallescentes, utrinque attenuatae, postice decurrentes ac ima basi laxe reticulato-anastomosantes; stipes erectus, flexuosus, rigidus coriaceus gracilis ($70-80'''$ lg. $\times$ $3'''$ crs.) utrinque leniter incrassatus, superne dense minuteque rufescenti v. pallescenti pulverulento-squarrulosus, medio glaber laevis pallescenti-fulvescens subnitens, basi squarruloso-squamulosus fuscus, intus farctus (vix summo apice breviter fistulosus), lignicolor. Sporae non visae.

42. Lentinus Schnyderi Speg. — Sacc., l. c. f. 579.

Hab. Ad truncos cariosos putrescentes prope *Apiahy,* Oct. 1888 (sub n. 2935).

Obs. Species intermedia inter *L. crinito* Fr. et *L. nigripede* Fr., satis tamen distincta; specimina brasiliensia nullo modo a bonaërensibus deflectunt.

43. Lentinus crassipes Berk. — Sacc., l. c. p. 576.

Hab. Ad truncos emortuos putrescentes in sylvis prope *Apiahy,* Aug. 1881 (sine n.).

Obs. Pileus hemisphaerico-infundibularis ($40'''$ dm.) tenuis coriaceus rigidus, margine involutus integer, centro laxe squamoso-villosus castaneus, ambitu dense longeque fulvo-strigosus, pilis longis intricatis circinatis; lamellae tenues submembranaceae confertae latiusculae ($1,5-2'''$ lt.) acie acutissimae dense minuteque denticulatae, e fulvo v. roseo subglaucescentes, margine pallidiores utrinque attenuatae ima basi non v. vix confluentes; stipes erectus rigidus coriaceus crassus ($25-30'''$ lg. $\times$ $5'''$ crs.) deorsum sensim incrassatus extus apice pallescenti-pulverulentus, caeterum pallide badius dense minuteque furfuraceo-squamulosus, intus farctus lignicolor. Sporae non visae.

44. Lentinus tener Klotsch. — Sacc., l. c. p. 576.

Diag. Ad truncos dejectos emarcidos in umbrosis prope *Apiahy*, Oct. 1880 (sub n. 14).

Obs. Specimina puiggariana pusilla, pileo infundibulari (15''' dm.), lamellis confertis pro ratione latiusculis (1''' lt.) e carneo pallescentibus, stipite brevissimo (7–8''' lg. × 2–3''' crs.) apice striato subpulverulento caeterum glabro. An praecedentium tantum varietas v. forma depauperata ?

45. Lentinus villosus Klotsch. — Sacc., l. c. f. 574.

Hab. Ad truncos dejectos cariosos in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2896).

Obs. Pileus e globoso hemisphaericus (10–30''' dm.), centro profunde umbilicatus tenuis rigidus coriaceus margine integer involutus ubique pulchre denseque subsquamosus, squamis apice longe strigoseque sfacelato-pilosis, pilis intricato-circinatis, sordide e fulvo v. fusco castaneus; lamellae subconfertae, membranaceo-crassiusculae, latae (2-2,5''' lt.) e pallescenti albae, acie acutatae denticulatae utrinque attenuatae, postice decurrentes dense minuteque reticulato-anastomosantes; stipes teres rectus (10–25''' lg. × 2-3''' crs.) erectus apice pallidus pulverulentus caeterum fuscus, fibrilloso-velutinus, basi dense patuleque hispido-villosus. Sporae non visae.

46. Lentinus velutinus Fr. — Sacc., l. c. f. 589.

Hab. Ad palos vetustos intemperiis expositos in hortis prope *Apiahy*, Dec. 1880 (sub n. 1515).

Obs. Specimina puiggariana perpulchra! Pileus infundibularis (100–120''' alt. × 70–80''' lt.) papyraceo-membranaceus rigidulus pulchre e cinnamomeo rufescens, dense minuteque puberulo-velutinus, per aetatem subglabratus, saepe laxe concentrice zonatus atque striis minutissimis densissimis radiantibus notatus, margine repandulus inte-

ger hispidulus; lamellae confertissimae strictissimae (0,5–0,7''' lt.) acie integerrimae utrinque attenuatae, pileo pallidiores; stipes erectus teres validus (60–100''' lg. × 5–10''' crs.) extus cinnamomeo-velutinus, intus albus farctus.

47. Lentinus Lecomtei Fr. — Sacc., l. c. f. 572.

Hab. Ad caudices subputrescentes in sylvaticis prope *Apiahy*, Jun. 1888 (sub n. 2377).

Obs. Specimina brasiliensia cum illis Americae septentrionalis (*Ellis*, Nort-Am. Fung. n. 403) perfecte congruentia; nullo modo tamen cum africanis (*Thuemen*, Mycth. univ n. 603 b) comparanda!

48. Lentinus perpusillus Speg. (n. sp.)

Diag. Pusillus, totus sericeo-nitens; pileus ovato-umbonatus subrufescens, dense adpresseque strigoso-subsquamulosus; lamellae strictissimae albae integrae; stipes teres erectus albus glaber.

Hab. Ad culmos dejectos putrescentes *Bambusae* cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1644).

Obs Plus minusve dense gregarius, rarius subsolitarius; pileus ovatus v. subglobosus superne late obtuseque umbonatus (1,5–2''' lt. et alt.) margine stipiti adpressus integer involutus, tenui membranaceus rigidulus, centro rufescenti-fulvus ambitu pallescens, pilis praelongis densissimis adpressissimisque subnitentibus vestitus; lamellae membranaceae densae strictissimae acie integrae albae utrinque attenuatae; stipes teres (5''' lg. × 0,5 crs.) erectus vix deorsum lenissime incrassatus albus v. pallescens, glaber, laevis rigidulus sericeo-nitens. Sporae ellipticae (6 × 3 μ) hyalinae, laeves. Species pulchella minutie nitore ac pilei forma mox dignoscenda.

49. Panus conchatus Fr. — Sacc., l. c. f. 615.

Hab. Ad palos vetustos putrescentes in hortis prope *Apiahy*, Maj. 1888 (sine n.).

50. Panus hymenorhyzus Speg. (n. sp.)

Diag. Candidus; pileus dimidiato-reniformis, postice non v. vix marginatus laevis glaber; lamellae subconfertae strictissimae ex albo pallescentes; stipes definite lateralis brevis teres albus glaber laevis basi in mycelium glabrum tenuissime membranaceum subpellucidum album latissime arctissimeque per matricem serpens expansus; sporae e globoso ovoideae, laeves, hyalinae.

Hab. Ad folia ramentaque arborum coacervata putrescentia in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2467).

Obs. Mycelium submucedineo-membranaceum anhistum latissime expansum (5-30'' diam.), arctissime matrice adnatum quandoque tenuissimum pellucidum quandoque subcrassiusculum opacum, album subnitens glabrum laeve v. spurie tuberculosum v. bullosum; pileus primo regularis hemisphaericus margine integer ac involutus, dein e latere tantum evolutus ac subdimidiatus, suborbicularis v. subreniformis (5-20''' dm.), e latere manco non v. plus minusve stricte marginatus laevis glaber albus; lamellae lineares tenuissimae strictissimae subconfertae polymacriae ex albo pallescentes, acie integerrimae; stipes teres brevis (3-10''' lg. × 0,5-1''' crs.) pileo concolor laevis glaber, deorsum lenissime incrassatus. Species pulcherrima nobilissima, mycelii natura mox dignoscenda.

51. Panus laciniato-crenatus Speg. — Sacc., l. c. f. 621.

Hab. Ad truncos emortuos v. languentes in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1537).

Obs. Specimina brasiliensia parvula senescentia, speciei sequenti proxima; sporae elliptico-cylindraceae (6-9 × 3 μ) laeyes hyalinae.

52. Panus eugrammus (Mntgn.) Fr. — Sacc., l. c. f. 626.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Jul. 1881 (sub n. 1502).

Obs. Pilei coespitosi saepeque imbricati, spathulati v. flabellati (20-40''' dm.), postice truncati v. truncato-cuneati, glaberrimi laevissimi, in vivo carnoso-molles subhygrophani, in sicco membranaceo-coriacei, rigiduli, radiatim sulcati margine dense striati, repando-lobati, centro pallescentes, margine rufescentes (in sicco !); lamellae membranaceae confertae latiusculae (2-3''' lt.) in vivo albo-pallescentes, in sicco pallescenti-rufescentes, acie integrae utrinque attenuatae: stipes vix evolutus, crassiusculus albus laevis glaber; sporae ex elliptico ovatae (8-9 × 6 μ) laeves, 1-guttulatae, hyalinae. Species priori peraffinis inter *Pleurotum* et *Panum* nutans.

53. Lenzites polita Fr. — Sacc., l. c. f. 649.

Hab. Ad caudices emortuos cariosos in sylvis prope *Apiahy*, Aug. 1881 (sub n. 1496).

Obs. Specimina brasiliensia a guaraniticis nonnihil recedunt, colore subroseolo omnium partium, pileo flabellato (30-40''' dm.) postice cuneato v. cordato ac in stipite verticali recto crassoque (40''' lg. × 5-6''' crs.) concolore lignoso duro producto.

54. Lenzites polita Fr.

Var. *dedaleoides* Speg.

Hab. Ad truncos humo obovolutos mucidos in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Varietas nova a typo recedens, pileo lacteo flabellato-reniformi (40-70''' dm.) postice immarginato, stipite horizontali brevissimo crassoque saepeque peltato-dilatato atque praecipue lamellis albo-pallescentibus postice dense sinuoso-gyrosis dedaloideis antice flexuosis furcatisque densiuscule anastomosantibus strictioribus (2''' lt.) ac subcrassioribus. An ejusdem status juvenilis ?

55. Lenzites flaccida (Bull.) Fr. — Sacc., l. c. f. 638.

Hab. Ad palos ramos truncosque emortuos putrescentes prope *Apiahy*, per ann. 1881-88.

Obs. Species, ut *Polystictus versicolor* (L.) Fr., summopere ludens, ac varietates sequentes nobiliores mihi describendae videntur :

A) *Subtypica* (sub n. 1496). Pilei horizontales dimidiati v. flabellati postice truncati v. cuneati (30-50''' dm. trs. × 20-40''' dm. ant.-post.) superne concentrice densiuscule zonati, hispidulo-velutini, opaci, unicolores, pallescentes margine acuti integri ; caro alba (0,5''' crs.) stupposa ; lamellae confertae membranaceae latiusculae (1,5-2''' lt.) integrae ex albo-pallescentes, postice plus minusve reticulato-anastomosantes.

B) *Robusta* (sub n. 1686). Pilei resupinati orbiculares v. dimidiato-reflexi (40-80''' dm.), umbone postico crasso adnati, superne densiuscule concentrice zonati, velutini, opaci, unicolores pallescentes, margine integri acuti ; caro alba (1-2''' crs.) stupposa ; lamellae confertae latiusculae (2''' lt.) ex albo pallescentes acie integrae nunquam anastomosantes.

C) *Nitens* (sub n. 1642). Pilei resupinati orbiculares v. dimidiato-reflexi flabellati (10-40''' dm.) superne densiuscule concentrice zonati adpressissime velutini, sericeo-nitentes, unicolores sordide cinerascentes, margine integri acuti ; caro tenuis (0.5''' crs.) alba stupposa ; lamellae confertae latiusculae (1-2''' lt.) ex albo pallescentes, postice non anastomostantes.

D) *Dichroa* (sub n. 1613). Pilei horizontales dimidiati v. flabellati postice truncati v. cuneati (30-50''' dm. trs. × 30-40''' dm. ant.-post.) superne hispido-velutini pallescentes densiuscule concentrice zonati, ambitu zonis rufescentibus ornati, margine acuti repandi ; caro alba (2-2,5''' crs.) stupposa ; lamellae confertae membranaceo-

rigidulae latiusculae (2–2,5''' lt.) acie integrae v. denticulatae, saepius furcatae atque postice plus minusve reticulato-anastomosantes.

E) *Fuscescens* (sine n.). Pilei horizontales, dimidiati, postice truncato subreniformes (30-40 dm. trs. $\times$ 20-25''' dm. ant.-post.), superne hispidulo-velutini dense concentrice zonati, zonis nonnullis depressis vix puberulis opacis nonnullis aliis tumidis elevatis hispidissimis, pallide rufescentes, margine acuti integri; caro fuscescens v. pallide subcinereo-fulva (0,5-1''' crs.) subsuberosa; lamellae confertae crassiuscule membranaceae, acie obtusiusculae integrae, densiuscule furcatae, postice non v. vix reticulato-anastomosantes, leniter e pallescenti subcervinae. An species distincta?

56. SCHIZOPHYLLUM COMMUNE Fr. — Sacc., l. c. p. 635.
Hab. Vulgatissimus ad palos truncosque vetustos prope *Apiahy*, per ann. 1881-88 (sub n. 1485, 1486, 1622).

57. CLITOPILUS GLABELLUS Speg. (n. sp.)
Diag. Pileus carnosus mollis, plano-depressus saepius excentricus laevis glaber pallide e roseo-testaceus; stipes solidus elongatus albus farinosulus utrinque subincrassatus; lamellae decurrentes confertae strictae albo-roseae; sporae ovoideae e hyalino roseae, laeves.
Hab. Ad terram inter folia dejecta putrescentia in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2912).
Obs. Pileus primo regularis hemisphaericus non v. vix subumbilicatus dein explanato-expansus (20-30''' dm.) excentricus medio plus minusve depressus margine integer semper involutus, carnosulus mollis e roseo testaceus glaber laevis (sub jove pluvio viscidulus?); lamellae tenui membranaceae, confertae, strictiusculae (1–2''' lt.), acie integerrimae acutae, polymacriae, utrinque attenuatae,

postice breviter decurrentes; stipes erectus rectus teres (30–50‴ lg. × 3–5‴ crs.) utrinque saepius leniter incrassatus carnosus albus farinosulus v. minutissime subfurfuraceo–squamulosus, farctus; sporae ovoideae (6-8 × 4-5 μ) inaequilaterales, grosse 1–guttulatae, laeves hyalino-roseae v. perdilute subferrugineae. Species *C. angustato* Prs. affinis sed satis distinctus.

58. Nolanea conoidea Speg. (n. sp.)

Diag. Pileus conoideo-expansus acute umbonatus membranaceus hygrophanus, aquose cinnamomeus glaber laevis margine rectus acutus non v. vix substriatus; stipes rectus tenuis fuscus basi mycelio albo instructus; lamellae remotiusculae latiusculae subliberae margine pilei attingentes; sporae irregulares, grosse denseque gibboso-nodulosae e hyalino subferrugineae.

Hab. Ad terram sabulosam muscosam sub dumetis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus primo ovoideus dein conoideo–expansus (20–25‴ dm.) centro minute acuteque umbonatus tenui membranaceus udus hygrophanus subcinnamomeus, in sicco opacus olivascenti–testaceus glaber laevis vix margine minute laxe obsoleteque striatulus; stipes teres erectus (25-30‴ lg. × 2‴ crs.) rectus tenuis, fistulosus tenacellus fuscus laevis glaber, basi mycelio parcissimo albicante instructus; lamellae subremotae latiusculae (2‴ lt.) tenui-membranaceae acie integrae, antice acutatae postice attenuato-rotundatae, pileo concolores v. pallidiores; sporae elongatae (10–12 × 6 μ) grosse denseque gibboso–nodulosae, grosse 1-guttulatae e hyalino pallidissime subferrugineae. Species pulchella *N. conica* Pk. certe peraffinis, sed ut videtur satis distincta.

59. Eccilia fusco-rufescens Speg. (n. sp.)

Diag. Pileus subhemisphaericus umbilicatus glaber laevis,

margine obsolete substriatus fusco-rufescens; lamellae tenuissimae confertae latissimae, adnato-decurrentes pileo pallidiores; stipes elongatus gracilis laevis glaber antice fulvus postice badio-fuscus; sporae subellipsoideae, anguloso-gibbosae, e hyalino subferrugineae.

Hab. Ad stipites *Filicum* putrescentes in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus primo subglobosus dein hemisphaericus (10-20''' dm) semper plus minusve profunde umbilicatus laevis glaber vix margine integro dense minute obsoleteque striatus (an etiam in vivo?), in juventute fulvo-rufescens dein, ambitu praecipue, rufescenti-fuscus; lamellae subtriangulares, confertae postice late (2-3''' lt.) adnato-decurrentes, antice attenuato-acutatae, tenuissime membranaceae acie integerrimae pallescenti-fulvae; stipes erectus rectus teres gracilis (40-70''' lg. × 1-2''' crs.) tenacellus rigidulus tenuiter e cavo farctus làevis glaber non v. vix subnitens, sub pileo subfulvescens caeterum fusco-badius v. subtestaceus, basi insititius, mycelio fere nullo; sporae ovoideae v. subellipticae (10-12 × 6-8 μ), grosse 5-6-angulato-nodulosae, grosse 1-guttulatae e hyalino perdilute ferruginascentes. Species *E. griseo-rubella* Lasch. plurimis notis accedens, satis tamen abhorrens.

60. Claudopus variabilis Prs. — Sacc., l. c. p. 733.

Hab. Ad truncos ramosque emortuos in sylvis prope *Apiahy*, Maj. 1888 (sine n.).

Obs. Pileus 5-15''' dm. tenuiter carnosulus furfurellus; stipes minutus incurvus velutinus; lamellae pallide e fusco olivascentes; sporae ovoideae (6-7 × 3-4 μ) pallidissime e rubiginoso olivascentes.

61. Claudopus subvariabilis Speg. (n. sp.)

Diag. Pileus orbiculari-subcordatus carnosus convexo-planus, glaber laevis testaceo-fulvescens; lamellae sub-

confertae latiusculae olivascenti-badiae; stipes minutus incurvus pileo pallidior glaber; sporae ellipsoideae laeves pallidissime olivascentes.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1880 (sub n. 1640).

Obs. Solitarius v. hinc inde laxe gregarius; pileus horizontalis ex orbiculari subcordatus v. rarius subdimidiatus (5–20''' dm.), postice plus minusve stricte marginatus, e convexulo applanatus, non v. vix deorsum depressulus, laevissimus glaberrimus margine rectus acutus integer, pallide testaceus v. badio-fulvescens; caro crassiuscula (0,5-1''' crs.) alba compacta, in sicco rigidula ad marginem usque producta; lamellae subconfertae membranaceae rigidulae pro ratione sublatiusculae (0,5-1''' lt.) lineares, polymacriae, antice acute attenuatae, postice truncato-adnatae, non v. vix denticulo minutissimo decurrentes, primo pallescentes, dein fulvae, postremo fusco-olivascentes, margine integerrimae pallidiores; stipes excentricus minutus (3–5''' lg. × 0,5–1''' crs.) abrupte incurvus, teres, pileo pallidior glaber laevis, vix basi mycelio parcissimo albo instructus; sporae ex ovoideo ellipsoideae (6–7 × 4–5 μ) laeves, grosse 1-guttulatae, chlorinae.

PHOLIOTELLA Speg. (n. gen.)

Char. Stipes annulatus carnosus ab hymeniophoro discretus; lamellae sinuato-v. truncato-adnatae, sponte non secedentes. Sporae ferruginae.

Genus *Pholiotis* simillimus vix stipite discreto recedens.

62. PHOLIOTELLA BLATTARIOPSIS Speg. (n. sp.)

Diag. Pileus carnosus convexo-umbonatus glaber laevis subferrugineus; stipes subfistulosus teres crassiusculus laevis pileo pallidior albo-anulatus; lamellae rotundato-adnatae latiusculae confertiusculae sordide fusco-ferrugineae; sporae ovoideo-subglobosae laeves ferrugineae.

Hab. Ad terram in pratis pinguibus prope *Apiahy*, Aug. 1881 (sub n. 1535).

Obs. Solitarius; pileus carnosus primo e globoso ovatus dein hemisphaerico-expansus (15–20''' dm.) centro crasse obtuseque umbonatus, glaber laevis, margine integer incurvulus, non striatus, e fusco v. ferrugineo rufescens (in sicco testaceus); caro alba compactiuscula sub umbone evoluta super lamellas gradatim marginem versus evanescens; stipes carnosus erectus rectus v. vix flexuosulus, teres (35–40''' lg. × 3–4''' crs.) facillime a pileo secedens glaber laevis, fistulosus, superne ferrugineus deorsum sensim incrassatus pallescens basi saepius albo-pulverulentus, sub pileo anulo descendente parvulo crassiuscule membranaceo albo integro persistente ornatus; lamellae polymacriae confertiusculae latae (3''' lt.) antice obtuse acutatae postice attenuato-rotundatae, longiores attenuato-adnatae, acie integrae sordide e fusco ferrugineae; sporae e sphaeroideo ovatae (9–10 × 8–9 μ) laeves ferrugineae. Species pulchella *Ph. blattariae* Fr. habitu accedens, mox tamen dignoscenda.

63. Pholiota Puiggarii Speg. (n. sp.)

Diag. Humigena, phaeota; pileus tenui carnosus convexo-planus laevis glabler e lutescente testaceus; stipes subfistulosus basi subincrassatus laevis, pileo pallidior, anulo albo majusculo superne praeditus; lamellae confertae postice attenuato-adnatae non v. vix subdecurrentes fusco-ferrugineae; sporae ellipsoideae laeves fusco-ferrugineae.

Hab. Vulgata in pratis graminosis prope *Apiahy*, Aut. 1881–88 (sub n. 2876).

Obs. Solitaria v. hinc inde laxe gregaria; pileus e convexo planus (30–50''' dm.) centro non v. vix depressus, nunquam umbonatus, carnosulus, mollis glaberrimus v. vix in prima aetate laxissime minutissimeque pulverulentus,

sub jove pluvio viscidulus, laevissimus (in sicco minute concentriceque rugulosus ac obsolete laxe radiatim substriatulus), primo lutescenti-fulvus dein fulvescenti-badius v. lutescenti-testaceus non v. vix subnitens; caro alba crassiuscula (2-4''' crs.) compactiuscula subexucca fere ad marginem pilei usque producta; stipes subfistulosus erectus rectus teres (60-100''' lg. × 4''' crs.) albescenti-fulvus glaber laevis, deorsum sensim incrassatulus atque basi subbulbosulus (10''' crs.) ibique mycelio laxe crassiusculeque fibroso-ramuloso candido strigose ornatus, ad partem superam, sub pileo, anulo descendente membranaceo amplo (8-12''' dm.) integro candido persistente cinctus; lamellae membranaceae confertae lineares sublatiusculae (3''' lt.) polymacriae, utrinque attenuatae, postice apicem stipitis attingentes, longiores non v. vix denticulo decurrentes, acie integerrimae primo fulvescentes dein obscure fusco-ferrugineae v. sordide cinnamomeae; sporae ex ovoideo ellipticae (10-14 × 6-9 μ) inaequilaterales eguttulatae, laeves, pulchre obscureque ferrugineae. Species vulgata nobilis *Ph. togulari* Bull. (in juventute) et *Ph. sphaleromorphae* Bull. (per aetatem) affinis, *Ph. praecoci* Prs. praecipue cognata, sed ab omnibus tamen satis, ut videtur, distincta.

64. Pholiota impudica Speg. (n. sp.)

Diag. Truncigena, aegeritina, coespitosa; pileus tenui carnosus convexus obtuse umbonatus laevis siccus glaber e fulvescente badius; stipes subflexuosus farctus minute adpresseque squarruloso-fibrillosus, pileo concolor, anulo amplo coriacello albo-pallescente cinctus; lamellae membranaceae lineares confertae utrinque attenuatae postice adnatae sordide fulvescentes; sporae ellipsoideae laeves rubiginosae.

Hab. Ad truncos vetustos muscosos in sylvis propre *Apiahy*, Maj. 1888 (sub n. 2913).

Obs. 3–5–coespitosa, rarius subsolitaria; pileus primo ex ovato hemisphaericus plus minusve subacute umbonatus margine subinvolutus saepeque pulverulento–fibrillosus, dein convexo-explanatus (10–25‴ dm.) obtuse obsoleteque umbonatus margine rectus integer e fulvo badius v. testaceus, centro obscurior, laevissimus glaberrimus; caro tenuis alba (0,5–1‴ crs.) subexsucca; stipes incurvo-adscendens flexuosulus teres (50–60‴ lg. × 3–5‴ crs.) deorsum sensim incrassatulus, basi adnato–subfasciculatus, superne pileo pallidior, deorsum concolor v. obscurior, firmus, dense minute adpresseque fibrilloso-squarrulosus per aetatem saepius glabratus ac subsericeus farctus tenacellus; anulus apice stipitis ac margine pilei adnatus amplus crassiuscule membranaceus tenacellus persistens, per aetatem irregulariter disruptus stipite v. pileo frustulatim adhaerens, primo albus dein sordide pallescens (in sicco subflocculosus); lamellae lineares (1–2‴ lt.) utrinque attenuatae, postice apice stipitis truncato–adnatae, tenui membranaceae polymacriae, acie integerrimae, primo albo–pallescentes dein sordide fulvescenti-rufae; sporae ex ovoideo ellipticae (10 × 5 μ) inaequilaterales laeves non v. minute 1-pluriguttulatae, pallide fulvo–rufescentes v. rubiginosae. Species *Ph. pudicae* Fr. affinis, satis riteque tamen distincta.

65. Pholiota leptopoda Speg. (n. sp.)

Diag. Muscigena; pileus hemisphaericus carnosulus, non v. vix papillulato-umbonatulus, glaber laevis e pallescente rufus; lamellae sinuato–adnatae latiusculae ferrugineae; stipes elongatus gracilis glaber laevis rufescens anulo parvulo lacero remoto ornatus; sporae ellipsoideae laeves ferrugineae.

Hab. In sylvis ad terram muscosam graminosam prope *Apiahy*, Jun. 1881 (sub n. 1533).

Obs. Pileus carnosulus hygrophanus primo subglobosus dein

hemisphaerico-expansus (10-15''' dm.) centro non v. minute papillutato-umbonatus, in juventute glaber laevis e pallescente lutescens, per aetatem obsolete laxeque striatus fusco-rufescens; caro tenuis aquosa (0,5-1''' crs.) alba; lamellae polymacriae membranaceae latiusculae (1-2''' lt.) confertiusculae acie integrae antice acutae postice sinuato-adnatae ferrugineae; stipes erectus rectus gracilis (40-80''' lg. × 1-2''' crs.) tener fistulosus hygrophanus glaber laevis sursum attenuatus albescens, deorsum sensim leniterque incrassatus fusco-rufescens, ad tertium superum anulo minuto submembranaceo lacero sordide albo ornatus; sporae ex ovoideo ellipsoideae (10 × 7 μ) leniter inaequilaterales eguttulatae laeves intense fusco-ferrugineae. Species elegans gracilis tenella *Ph. mycenoidi* Pk. cognata.

66. Pholiota imperialis Speg. (n. sp.)

Diag. Pileus carnoso-convexus centro obscure ferrugineus, ambitu croceo-rufescens glaber laevis; stipes adscendens obclavatus incurvulus e luteo cinnamomeus fistulosus laevis glaber, apice anulo crasso subcoriaceo concolore ornatus, basi mycelio crasso citrinus donatus; lamellae membranaceae confertae latae adnatae primo fulvae dein pulchre ferrugineo-cinnamomeae; sporae subellipsoideae laxe rugulosae intense ferrugineae.

Hab. Ad truncos vetustos cariosos in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus primo e globoso subhemisphaericus laevissimus glaberrimus dein convexo-explanatus (50-100''' dm.) centro non v. vix depressus, margine rectus integer v. subrevolutus atque fissus glaber v. minute adpresse laxissimeque fibrilloso-squamulosus, medio obscure fusco-ferrugineus, ambitu gradatim pallidior ac perpulchre ex aurantio ferrugineus v. cinnamomeo-subcroceus subsericeo-nitens; caro crassa (8-10''' crs.) ex albo flavescens

compacta succosa subtenacella; stipes adscendens teres (100-120‴ lg. × 10-20‴ crs.) deorsum incrassatus atque incurvus e cinnamomeo ferrugineus rigidus tenax (in sicco!) glaber laevis basi mycelio substuppeo matricem penetrante intense citrino ornatus, apice vivide aurantio-lutescens, anulo descendente crassiusculo tenacello (20‴ dm.) concolore cinctus; lamellae membranaceae latae (10-12‴ lt.) confertae polymacriae acie integrae, antice attenuato-acutatae, postice adnato-truncatae, primo fulvae dein obscure ferrugineae, pulvere fulvo-cinnamomeo adspersae; sporae e globoso v. ovoideo ellipsoideae (8-9 × 7-8 μ) pulchre ferrugineae obsolete laxeque rugulosae. Species vere mirabilis distinctissima.

67. Flammula peregrina Fr. — Sacc., l. c. f. 814.

Hab. Ad truncos emortuos dejectos prope *Apiahy*, Aut. 1881 (sub n. 1543).

Obs. Pileus applanatus (20-25‴ dm.) laevis glaber e fulvescente ferrugineus, carnosulus; stipes incurvus (10-20‴ lg. × 4-6‴ crs.) farctus concolor; lamellae latiusculae (2-3‴ lt.) confertiusculae fulvo-ferrugineae; sporae ovoideae (8-10 × 5 μ) laeves eguttulatae fulvo-ferrugineae.

68. Flammula sordida Speg. (n. sp.)

Diag. Gymnota, terrestris; pileus applanatus centro depresso-umbonatus, margine involutus laevis glaber sordide pallideque badius; lamellae lineares confertiusculae, adnato-decurrentes fusco-ferrugineae; stipes erectus rectus teres e farcto fistulosus, superne pallescens laevis, centro pileo concolor glaber, deorsum albescens pulverulentus; sporae ovoideae laeves fusco-ferrugineae.

Hab. Ad terram graminosam pinguem in umbrosis prope *Apiahy*, Aut. 1881 (sine n.).

Obs. Solitaria; pileus primo ovoideus dein explanato-ex-

pansus (15–20''' dm.) centro depressulus umboneque plus minusve evoluto donatus margine incurvulus (in juventute involutus) laevis glaber non v. vix obsoletissime substriatus, pallide sordideque badius v. subtestaceus, tenuiter carnosulus; caro tenuis (2-3''' crs.) alba subexsucca; lamellae membranaceae confertiusculae mediocres (1,5–2''' lt.), utrinque attenuatae, postice plus minusve decurrentes acie integrae sordide fusco-ferrugineae; stipes erectus teres (60''' lg. × 3''' crs.) superne pallescens laevis, medio pileo concolor glaber deorsum albescens pruinula alba vestitus, non v. leniter incrassatus, mycelio albo-fibroso dense intertexto ac terram arcte adglutinante radicatus; sporae ovoideae (10 × 6-7 μ) inaequilaterales, laeves eguttulatae, sordide obscureque ferrugineae.

69. Flammula Puiggarii Speg. (n. sp.)

Diag. Lubrica, terrestris; pileus carnosus applanato convexulus, subinvolutus laevis viscidulus fulvo-testaceus; lamellae membranaceae confertiusculae adnatae obscure fusco-fuligineae; stipes elongatus sub pileo abrupte incurvus utrinque incrassatus, pileo concolor, glaber laevis; sporae ovoideae laeves fuligineo-ferrugineae.

Hab. Ad terram humosam v. detrita lignea putrescentia in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1529).

Obs. Solitaria; pileus subhemisphaerico-explanatus (80–100''' dm.) margine primo involutus dein incurvulus tantum, centro non depressus nec umbonatus, laevis glaber, cute facile separabili viscidula, in sicco papillis minutissimis albo-cinerascentibus laxissime adspersa, hinc inde rimulosa tectus, ferrugineus v. fulvescenti-testaceus, centro obscurior ambitu saepius pallidior; caro alba crassa (10''' crs.) marginem pilei usque producta; lamellae polymacriae membranaceae confertiusculae latiusculae (4–5''' lt.), acie integerrimae, antice attenuato-acutatae, postice subattenuato-truncatae, adnatae non v. vix denti-

culo decurrentes, primo ferrugineae dein obscure fusco-fuligineae; stipes horizontalis teres elongatus sub pileo abrupte verticaliter incurvus (80-100''' lg. × 6-8''' crs.) farctus utrinque incrassatulus (10-15''' crs.), glaber laevis, pileo concolor, deorsum pallescens, basi saepius albo-pruinulosus; sporae ovoideae (11-12 × 8-9 μ) inaequilaterales laeves eguttulatae e ferrugineo fuligineae. Species perpulchra magna carnosa distinctissima.

70. Flammula brasiliensis Fr. — Sacc., l. c. f. 814.

Hab. Ad truncos nec non ad terram pinguem ramentaceam in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2863-2896 b.).

Obs. Solitaria v. saepius coespitosa; pileus convexulus centro planus v. plus minusve depressulus (15-30''' dm.) tenuiter carnosulus laevis glaber sulfureus; caro lutea (1-1,5''' crs.) subexsucca; lamellae polymacriae confertiusculae membranaceae substrictiusculae (1,5-2''' lt.) antice attenuatae postice attenuato-truncatae adnataeque, acie integerrimae, primo citrinae dein fulvo-cinnamomeae v. vivide ferrugineae, postremo sordide obscureque fusco-fuligineae; stipes plus minusve evolutus (40-50''' lg. × 1,5-3''' crs.) erectus, rectus v. flexuosulus saepeque subtortus, laevis glaber sursum teres, pileo concolor deorsum leniter incrassatulus fulvescens v. subfulvescens; sporae ovoideae (8-10 × 4-5 μ) inaequilaterales pulchre intenseque ferrugineae.

71. Flammula bicolor Speg. (n. sp.)

Diag. Pileus carnosulus planiusculus laevis fulvo-ochraceus; stipes gracilis subfistulosus rigidus durus pileo concolor laevis glaber; lamellae confertae membranaceae adnatae, primo citrinae dein pileo concolores; sporae ovoideae laeves fulvo-ferrugineae.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2894-95).

Obs. Coespitosa, rarius solitaria; pileus carnosulus primo hemisphaericus laxe minuteque subsquamuloso-pulverulentus, dein convexo-expansus (20–40‴ dm.) centro saepius plus minusve umbilicatus glaber laevis vix margine obsolete striatulus, semper pulchre intenseque e fulvo v. rufo ochraceus; caro subtenuis (1-2‴ crs.), medio tantum bene evoluta compactiuscula, pallide citrina; lamellae polymacriae membranaceae latiusculae (2–3‴ lt.) confertae acie integerrimae, antice acutato-attenuatae, postice truncatae v. subsinuatae stipiteque adnatae, primo citrinae dein fulvescentes postremo rufo-ferrugineae; stipes erectus rectus v. vix flexuosulus tenuiter fistulosus, teres (15-40‴ lg. × 1–2,5‴ crs.), in juventute mollis, per aetatem rigidus fere lignosus, basi non v. vix incrassatus, pileo concolor, laevis glaber; sporae ovoideae (8–9 × 4 μ) inaequilaterales, grosse 1-guttulatae, laeves, pulchre pallideque fulvo-ferrugineae. Species priori peraffinis; an ejusdem tantum varietas?

72. Flammula sapinea Fr. — Sacc., l. c. f. 824.

Hab. Ad truncos emortuos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1492).

Obs. Pileus convexo-explanatus (30–50‴ dm.) centro opacus subochraceus, ambitu radiatim rimulosus aureo-flavescens subnitens; stipes rectus v. incurvulus, adscendens pallide fulvescens v. rufescens glaber laevis teres (35–40‴ lg. × 2–3‴ crs.) farctus, vix deorsum incrassatulus (4-5‴ crs.) ac subfistulosus; lamellae membranaceae confertiusculae polymacriae latiusculae (2-3‴ lt.), antice attenuato-acutatae, postice leniter attenuatae atque truncato-adnatae, primo pallide fulvescentes dein ferrugineae; sporae ex ovoideo ellipsoideae (7-8 × 4–5 μ) subinaequilaterales, laeves, obtusae e fulvo ferrugineae. Forma brasiliensis elegantissima a typo pileo minus carnoso nonnihil recedens.

73. Flammula palmarum Speg. (n. sp.)

Diag. Pileus carnosulus convexulus fulvo-lateritius glaber laevis; lamellae membranaceae latiusculae confertae adnatae ferrugineae; stipes erectus mollis subfistulosus gracilis pileo pallidior, glaber laevis; sporae ovoideae laeves fulvo-ferrugineae.

Hab. Ad truncos palmarum in campis prope *Apiahy,* Aut. 1881 (sub n. 1623).

Obs. Pileus primo hemisphaericus dein convexo-explanatus (10–30‴ dm.) centro non v. parce depressus tenuiter carnosulus margine integer incurvulus glaber laevis, primo fulvus dein e fulvo lateritius v. ferrugineus; caro tenuis (0,5–1,5‴ crs.) vix fere centro tantum evoluta e lutescente alba; lamellae membranaceae polymacriae, acie integrae confertae ferrugineae, antice arcuato-attenuatae, postice truncato-adnatae, latiusculae (3–3,5‴ lt.); stipes erectus rectus v. subflexuosulus teres gracilis (30–40‴ lg. × 1,5–2‴ crs.) mollis, superne fulvus, caeterum pileo concolor v. vix pallidior, laevis glaber, utrinque non v. vix incrassatulus, basi matricem bulbosule (2,5–3‴ crs.) penetrans subfistulosus; sporae ellipsoideo-ovoideae (8–10 × 5–6 μ) antice acutae postice obtusae leniter inaequilaterales, eguttulatae pulchre fulvo-cinnamomeae.

74. Flammula spumosa Fr. — Sacc., l. c. f. 817.

Hab. Ad terram circa caudices putrescentes muscosos in sylvis prope *Apiahy*, Aut. 1888 (sine n.).

Obs. Forma brasiliensis sublignatilis a typo nonnihil recedens; pileus tenuiter carnosulus ex hemisphaerico applanatus (15–20‴ diam.) non v. vix umbonatulus, margine subinvolutus integer e fulvo subaurantius; caro e luteo citrina; stipes elongatus flexuosulus (30–35‴ lg. × 2–3‴ crs.) fibrillosus e flavescente ferrugineus; lamellae adnatae confertae, primo luteae dein vivide ferrugineae;

sporae ellipsoideae (8–10 × 5–5,5 μ) laeves eguttulatae flavo-rubiginosae.

75. Flammula? flavipunctata Speg. (n. sp.)

Diag. Sapinea; pileus tenuiter carnosulus convexo-planus subaurantius minute adpresseque fusco-maculatus v. subsquamulosus; stipes tenax rigidus glaber laevis pileo pallidior; lamellae confertae latissimae ferrugineo-aurantiae minutissime denseque luteo-punctulatae; sporae ellipsoideae aurantio-ferrugineae.

Hab. Ad truncos languidos in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Solitaria; pileus tenuiter carnosus rigidulus e convexo applanatus (15–20‴ dm.) centro non v. vix depressulus margine obtusulus integer v. repandulus medio pallide e ferrugineo aurantiacus, maculis v. squamulis adpressis minutis fuscescentibus variegatus, ambitu lutescens glaber laevis; caro tenuis (0,5‴ crs.) compactiuscula ex albo lutescens; stipes erectus rectus v. incurvulus teres (20-25‴ lg. × 2‴ crs.) utrinque non v. leniter incrassatulus rigidulus tenax glaber laevis, pallide e fulvo ferrugineus v. fulvus, farctus; lamellae membranaceae pro ratione latissimae (3–4‴ lt.) confertae, polymacriae, antice attenuatae postice subsinuato-adnatae, acie integrae, primo luteae dein pulchre aurantio-ferrugineae, punctis densis minutissimis (sub lente fere tantum perspicuis) luteis donatae; sporae ellipsoideae (9-10 × 5 μ) leniter inaequilaterales non v. minute 1–3-guttulatae laeves ferrugineo-aurantiae (fulvo aurantiae sub microscopio!). Species stipite sublignoso (in sicco) lamellisque subsinuatis ad *Naucorias* satis vergens et facile *Naucoriae marasmioidi* Pk. proxima!

76. Naucoria pygmea Bull.? — Sacc., l. c. f. 833.

Hab. Ad basin truncorum in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. A typo recedit pileo subumbonato margine fere extrio stipiteque pallescenti-fulvescentibus; sporae ellipsoideae (6-8 × 4-5 μ) laeves fulvo-olivascentes. Specimina satis manca et tandem nonnihil dubiosa!

76. NAUCORIA? RIGIDIPES Speg. (n. sp.)

Diag. Pileus hemisphaericus ligneo-pallescens laevis glaber margine inflexus squamulis albis laxis secedentibus ornatus; lamellae latae subtriangulares subconfertae subsinuato-adnatae rufescenti-ferrugineae; stipes erectus teres ligneo-pallescens ligneo-rigidus glaber medio obsolete striatus basi araneoso-gossypinus; sporae ellipsoideae laeves pallide ferrugineae.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2872).

Obs. Solitarius; pileus marasmioideo-rigidulus primo subglobosus margine minute albo-appendiculatus, dein hemisphaerico-expansus (15''' lt.), glaber (an viscosus?) laevis pallidissime fulvus v. lignicolor, margine subincurvulus integer frustulis squamuliformibus albis (veli vestigiis?) laxe ornatus; caro tenuis (0,5-1''' crs.) pallescens exsucca; lamellae membranaceae subconfertae pro ratione latissimae (3''' lt.) polymacriae subtriangulares, postice rotundato-truncatae adnataeque, acie integerrimae, primo rufescentes dein pallide ferrugineae; stipes erectus flexuosulus teres (40-50''' lg. × 1,5-2''' crs.), tenax rigidus sublignosus, tubulosus, cavitate pulpa facile separabili alba spongiosa farctus, pileo concolor v. vix pallidior, utrinque leniter incrassatulus summo apice laevis, medio obsolete striatus, basi subinsititius, mycelio albo laxe tenuissimeque araneoso-gossypino vestitus; sporae ellipsoideae (13-14 × 9-10 μ) non v. vix inaequilaterales laeves eguttulatae rufescentes v. pallide fuligineae. Species pulcherrima habitu *Strophariae merdariae* Fr. simillima sed magis rigida ac lamellis sporisque ferrugineis distincta.

77. Naucoria ? echinosperma Speg. (n. sp.)

Diag. Lepidota: pileus convexo-umbonatulus e cervino subferrugineus laevis farinosulus; lamellae ventricosulae adnatae saepeque denticulo decurrentes lateritio-ferruginae; stipes elongatus teres fistulosus pallescens laevis glaber; sporae globosae echinulatae ferrugineae.

Hab. Ad terram humosam detritis ligneis inmixtam in sylvis prope *Apiahy*, Oct. 1888 (sub n. 2918).

Obs. Pileus membranaceo-carnosulus primo subovatus dein convexo-applanatus (25''' dm.) centro umbonatulus obscurior, margine acutus subincurvus integer v. minute fissus e cervino testaceus v. subferrugineus laxe minutissimeque subcanescenti-pulverulentus laevis v. (an in sicco tantum?) radiatim subimperspicue fibrilloso-striatus; lamellae membranaceae subconfertae latae (2,5-3''' lt.) polymacriae, antice acutato-rotundatae, postice breviores attenuato-subsinuatae, longiores subtruncato-adnatae saepeque denticulo breviter decurrentes, acie integerrimae, intense obscureque ferrugineae; stipes cartilagineo-carnosulus fistulosus erectus rectus tenuis (40-45''' lg. × 2-3''' crs.) deorsum leniter incrassatus glaber laevis, vix (in sicco tantum?) obsolete longitudinaliterque fibrilloso-striatus, pileo pallidior, basi mycelio albo-gossypinulo radicatus; sporae globosae (8 μ) grosse 1-guttulatae, dense minuteque papilluloso-asperulae intense pulchreque ferrugineae. Species inter *Flammulas* et *Naucorias* media; an *N. echinospora* (auct.? Sacc., l. c. f. 859) identica?

78. Naucoria apiahyensis Speg. (n. sp.)

Diag. Pileus e globoso hemisphaericus glaber laevis ferrugineus; lamellae sinuato-adnatae sordide fusco-ferrugineae; stipes tenacellus striatus pallescens; sporae ovoideae, rugosae, ferrugineae.

Hab. Ad terram in pratis inter gramina prope *Apiahy*, Apr. 1888 (sub n. 2874).

Obs. Pileus subcarnosulus primo hemisphaerico-globosus, dein explanato-expansus (15–20‴ dm.), margine tenuis subinvolutus integer, laevis glaber sordide obscureque ferrugineus; caro tenuis arida albescenti-rufescens; lamellae membranaceae sublatiusculae (1,5-2‴ lt.) confertae, polymacriae antice attenuato-acutatae, postice rotundato-adnatae, acie integerrimae, sordide obscureque fusco-ferrugineae; stipes teres erectus rectus (25–30‴ lg. × 1–2‴ crs.) tenacellus fistulosus, superne pallescens deorsum fuscescenti-ferrugineus, dense grosseque longitudinaliter striatus; sporae ovatae v. ellipsoideae (13–15 × 8–10 μ) leniter inaequilaterales, eguttulatae, dense grosseque rugulosae, pulchre atque intense ferrugineae. Species pulcherrima a multis proximis sporis rugosis mox dignoscenda.

79. Naucoria pusillima Speg. (n. sp.)

Diag. Pileus e convexo planus margine inflexulus e rufescente badius laevis glaber; stipes teres deorsum leniter incrassatus subfarctus pileo concolor laevis glaber; lamellae confertiusculae lineares adnatae e rufo ferrugineae; sporae ellipsoideae rugulosae lutescenti-ferrugineae.

Hab. Ad terram inter muscos in umbrosis propre *Apiahy*, Apr. 1888 (sin n.).

Obs. Solitaria; pileus subcarnosulus primo hemisphaericus dein convexo-explanatus (3–5‴ lt.) centro non v. parce depressus, margine saepius inflexulus e rufescente badius v. pallide ferrugineo-testaceus, ambitu pallidior laevis glaber; lamellae lineares membranaceae confertiusculae acie integrae, polymacriae, antice acutatae postice subrotundatae v. truncato adnatae, primo rufescentes dein ferrugineae; stipes erectus rectus teres (10‴ lg. × 0,5–1‴ crs.) deorsum sensim incrassatus laevis glaber superne pallescens inferne pileo concolor v. obscurior; sporae el-

lipsoideae (8-9 × 5 μ) utrinque plus minusve acutatae leniter inaequilaterales non v. 1-guttulatae, minutissime denseque rugulosae e fulvo flavescenti-ferrugineae. Species vere pusilla rigidula, in sicco saepius tota intense nigrescens.

80. Galera macrorhina Speg. (n. sp.)

Diag. Pileus convexo-explanatus, umbone conoideo elongato acutiusculo donatus, striato-subsulcatus, rufescenti-lateritius; lamellae lineares sinuato-adnatae ferrugineae; stipes teres pileo concolor laevis; sporae ellipsoideae rugulosae ferrugineae.

Hab. Ad ramenta dejecta putrescentia in uliginosis prope *Apiahy*, Aut. 1880 (sub n. 1570).

Obs. Pileus carnosulo-membranaceus primo acute subpyriformis dein convexo-explanatus (5-10‴ dm.) centro papilla pro ratione longissima acutiuscula ornatus, ambitu grosse subdenseque striato-sulcatus, margine recto integro v. erosulo-fisso, subcoccineus subpulverulentus dein glaber rufescenti-lateritius in umbone obscurior; caro vix centro evoluta aquosula albo-flavescens; lamellae lineares (0,5-0,7‴ lt.) membranaceae subconfertiusculae acie integrae utrinque attenuatae postice subtruncato-rotundatae; stipes erectus teres (10‴ lg. × 1‴ crs.) laevis glaber, pileo concolor utrinque non v. leniter incrassatus basi insititius; sporae ellipsoideo-ovatae (10 × 5 μ) subinaequilaterales, eguttulatae minutissime subimperspicueque rugulosae e ferrugineo fulvo-cinnamomeae.

81. Galera rubiginosa Prs. — Sacc., l. c. f. 868.

Hab. In herbosis nemorosis prope *Apiahy*, Aut. 1881 (sine n.).

Obs. Pileus campanulatus (10‴ alt. × 10‴ dm.) membranaceus, sulcato-striatus, hygrophanus, rufescenti-cervi-

nus ; lamellae adscendentes sublineares utrinque attenuatae, postice truncato-adnatae (1-1,5''' lt.) ferrugineae; stipes erectus gracilis (30''' lg. × 1,5''' crs.) laevis glaber, sursum pileo pallidior, deorsum concolor ; sporae ellipsoideae (10 × 6-7 μ) laeves eguttulatae rubiginoso-aurantiae.

82. GALERA HYPNORUM Batsch. — Sacc., l. c. f. 868.

Hab. Ad terram humosam muscosam in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2884).

Obs. Specimina, quae mihi adsunt, pusilla ac subobliterata ; sporae ellipsoideae (6-9 × 4-5 μ) laeves, pallide fulvo-ferrugineae.

83. TUBARIA FURFURACEA Prs.? — Sacc., l. c. f. 872.

Hab. In sylvis inter gramina et muscos prope *Apiahy*, Maj. 1888 (sub n. 2907).

Obs. Specimen unicum nonnihil mancum typo satis respondens, sed tamen nonnihil dubiosum ; sporae ex ovoideo ellipsoideae (8-9 × 4-5 μ) laeves minute pluriguttulatae, pallide ferrugineae.

84. TUBARIA HETEROSTICTA Fr.? — Sacc., l. c. f. 873 (ut varietas).

Hab. Ad terram pinguem in hortis urbanis, *Apiahy*, Aut. 1881 (sine n.).

Obs. Specimen etiam unicum et nonnihil obliteratum, ergo satis dubiosum ; sporae e globoso ellipsoideae v. rarius ovoideae (10-11 × 7-8 μ) laeves eguttulatae, pallide ferrugineae.

85. AGARICUS CAMPESTER L. — Sacc., l. c. f. 997.

Hab. In pratis herbosis subuliginosis prope *Apiahy*, Jun. 1881 (sine n.).

Obs. Sporae subopace fusco-purpureae ellipsoideae (8-9 × 5-7 μ) laeves.

86. Hypholoma piluliforme Bull.? — Sacc., l. c. f. 1040.

Hab. Ad caudices putrescentes muscosos in sylvis prope *Apiahy*, Jun. 1888 (sine n.).

Obs. Specimina nonnihil exsiccatione obliterata sed vix a typo recedere videntur. Coespitosa; pileus subglobosus obtuse obsoleteque umbonatus centro ochraceus ambitu lutescens (5-10''' dm.); stipes gracilis elongatus (20''' lg. × 1-1,5''' crs.) albus laevis glaber; cortina alba fugacissima; lamellae subconfertae lineares postice truncato-adnatae, primo albae dein sordide fusco-olivascentes; sporae ellipsoideae (9-10 × 5 μ) utrinque obtusiuscule acutatae, non v. vix inaequilaterales, obscure e fusco fuligineae.

87. Deconica acutipilea Speg. (n. sp.)

Diag. Pileus e globoso campanulatus acute breveque umbonatus testaceus glaber laevis; lamellae latissimae triangulari-adnatae fusco-atrae; stipes elongatus flexuosus superne badius glaber, inferne pallescens albo-pruinulosus; sporae ellipsoideae laeves fuligineo-purpurascentes.

Hab. Inter folia dejecta putrescentia in sylvis uliginosis prope *Apiahy*, Aut. 1881 (sub n. 1536).

Obs. Pileus primo globosus dein ovatus postremo conoideo-campanulatus (7-10''' dm.), umbone brevi parvulo acutissimo ornatus, centro fusco-testaceus, ambitu pallidior, laevis glaber; caro vix evoluta subexsucca alba; lamellae membranaceae confertiusculae, polymacriae pro ratione latissimae (3''' lt.) triangulares, postice sinuato v. saepius truncato-adnatae denticuloque decurrentes, acie integerrimae, fusco-atrae; stipes erectus rectus teres (50''' lg. × 1,5''' crs.) flexuosus fistulosus tenacellus rigidulus superne glaber laevis badius, deorsum non v. vix

incrassatulus sensim pallescens ac pruinula alba densa vestitus; sporae ellipsoideae v. ovoideae (10–12 × 6–9 μ), leniter inaequilaterales, utrinque obtusiusculae atque papilla hyalina minutissima auctae, laeves e fusco purpureo-fuligineae. Species pulchella habitu *Paneoli*.

88. Deconica tropicalis Speg. (n. sp.)

Diag. Pileus hemisphaericus acutiuscule minuteque umbonatulus fulvellus glaber laevis; lamellae triangulares latiusculae fusco-nigrae; stipes elongatus superne fulvus glaber, inferne pallescens albo-pruinulosus; sporae ex ovoideo limoniformes laeves fumoso-atrae.

Hab. Ad folia dejecta coacervata putrescentia in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2911).

Obs. Pileus primo hemisphaericus dein convexo-explanatus (5–8‴ diam.) umbone parvulo brevi acutiusculo ornatus, centro rufescens, ambitu fulvus laevis glaber; caro vix evoluta compactiuscula alba; lamellae membranaceae confertiusculae, polymacriae, e lineari triangulares latiusculae (1,5‴ lt.) postice truncato-adnatae, non v. vix denticulo decurrentes, acie integerrimae, fusco-nigricantes; stipes teres erectus (50‴ lg. × 1‴ crass.) rectiusculus e farcto cavus tenacellus rigidulus, sursum fulvescens deorsum non v. vix incrassatus e pallescente albus, glaber laevis, basi pruinula alba parca adspersus; sporae ex ovoideo limoniformes (10 × 7 μ) non v. leniter inaequilaterales laeves fumoso-atrae. Species priori peraffinis, lamellis strictioribus atque sporarum forma satis recedens.

89. Psathyra? commiscibilis Brk. — Sacc., l. c. f. 1068.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1531 b).

Obs. Pusilla, coespitosa; pileus subglobosus (5–8‴ diam.) pallescens v. rufescens striato-sulcatus hygrophanus;

lamellae membranaceae confertae lineares sordide fuligineae; stipes breviusculus teres erectus (10–15''' lg. × 1''' crs.) superne pallescens, basi albus subpellucidus, glaber laevis; sporae ellipsoideo-ovoideae (7–10 × 5-6 μ) laeves sordide fuligineae. Species *Psathyriellis* omnibus characteribus externis vergens, sed sporis non atris et tandem *Galeris* accedens.

90. Bolbitius? phascoides Speg. (n. sp.)

Diag. Pileus ovato-conoideus cinereus glaber laevis; lamellae adscendenti-liberae fusco-ferrugineae; stipes erectus gracilis cinereus glaber nitidus; sporae ellipsoideae laeves intense ferrugineae.

Hab. Ad terram uliginosam muscosam sub arbustis prope *Apiahy*, Apr. 1888 (sub n. 2873).

Obs. Pileus ovatus, superne longiuscule acutissimeque conoideus (8–10''' alt. × 5–7''' dm.) cinereus glaber vix margine irregulariter obsoleteque contracto-plicatulus, tenui-membranaceus; lamellae tenues confertiusculae, liberae adscendentes polymacriae acie integrae, primo fulvo-rufescentes dein fusco-ferruginae subfluxiles; stipes teres erectus rectus (50–60''' lg. × 1''' crs.) laevis glaber subnitens pileo concolor v. vix pallidior, ima basi non v. vix incrassatulus atque mycelio parco gossypinulo-albo radicatus; sporae ex ovoideo ellipsoideae (14-16 × 6–8 μ), inaequilaterales laeves fusco-ferrugineae. Species ad hoc genus dubiose relata, pulchella, capsulam *Phasci* cujusdam calyptra adhuc vestitam in mente revocans.

91. Coprinus ephemerus Fr.? — Sacc., l. c. f. 1106.

Hab. Ad terram pinguem stercoratam in hortis prope *Apiahy*, Jan. 1881 (sine n.).

Obs. Specimen nonnihil mancum, ergo dubiosum. Sporae ex ellipsoideo-globosae (10-12 × 7–10 μ), laeves, atro-fuligineae.

92. Coprinus hortensis Mntgn.? — Sacc., l. c. f. 1107.
Hab. Ad terram humosam stercoratam in hortis, *Apiahy*, Aut. 1881 (sine n.).
Obs. Specimen valde obliteratum ac vix determinandum. Sporae e globoso limoniformes (12–14 × 10–13 μ) laeves atrae opacae.

93. Coprinus nycthemerus Fr.? — Sacc., l. c. f. 1100.
Hab. In herbosis uliginosis sylvarum prope *Apiahy*, aut. 1881 (sub n. 1530).
Obs. Specimen exsiccatione obsoletum, typo tamen satis respondens; sporae ovoideo-ellipsoideae (12-14 × 6–8 μ) laeves, atro-fuligineae.

94. Anellaria separata (L.) Krst. — Sacc., l. c. f. 1125.
Hab. In fimo nec non foliis stercoratis putrescentibus in sylvaticis prope *Apiahy*, Apr. 1888 (sub n. 2871).
Obs. Anulus mox evanidus; sporae ellipsoideae (18-20 × 10–14 μ) non v. vix sublimoniformes laeves atrae.

95. Anellaria atramentaria Speg. (n. sp.)
Diag. Pileus carnosus hemisphaerico-umbonatus e livido badius glaber laevis; lamellae confertae sinuato-adnatae atrae; anulus membranaceus persistens lacerus albus; stipes curtus superne fuscescens inferne pallescens incrassatusque; sporae ovoideo-subglobosae laeves atrae.
Hab. Ad terram pinguem v. stercoratam inter folia prope *Apiahy*, Apr. 1888 (sub n. 2871 ?).
Obs. Pileus primo subglobosus dein hemisphaerico-expansus (40‴ dm.) plus minusve crasse obtuseque umbonatus carnosulus laevis glaber, centro badius, ambitu lividus, margine acutus subappendiculatus eroso-denticulatus; caro acquoso-flocculosa (1–2‴ crs.) alba, centro praecipue evoluta marginem versus gradatim evanescens; lamellae membranaceae confertae, latiusculae (2–3‴ lt.)

polymacriae, antice attenuato-acutatae, postice sinuato-adnatae primo fuligineae, dein atrae subdiffluentes, in sicco aterrimae rigidae fragillimae; anulus majusculus (5-8‴ dm.) primo margine pilei adhaerens dein lacero-liber, membranaceus persistens albus; stipes fistulosus erectus superne teres (30‴ lg. × 4-5‴ crs.) non v. vix pruinulosus sordide fuscescens, inferne sensim incrassatus atque basi subbulbosulus (9-11‴ crs.) albus, mycelio albo-fibrilloso radicatus; sporae e globoso-ovatae (5-6 × 4-5 μ) laeves atro-fuligineae. Species priori proxima sed anulo persistente distinctissima, in sicco rigida fragilis fere carbonacea.

96. Anellaria ? lepiotoides Speg. (n. sp.)

Diag. Pileus carnosus ovoideus umbonatus castaneus glaber laevis; lamellae confertae sinuatae ferrugineae atrae albo-marginatae; anulus membranaceus persistens albus; stipes pileo connatus teres apice albus medio fuscescens ac albo-pruinulosus, basi abrupte bulboso-incrassatus; sporae ovoideae laeves atro-fuligineae.

Hab. Ad terram humosam detritis ligneis inmixtam in sylvis prope *Apiahy*, Maj. 1888 (sine n.).

Obs. Pileus primo ovatus dein convexo-expansus (30-40‴ dm.) centro plus minusve crasse obtuseque umbonatus glaber laevis castaneus, margine incurvulus integer; caro crassiuscula (4‴ crs.) alba compactiuscula vix extremo margine evanescens; lamellae membranaceae lineari-arcuatae (2‴ lt.) confertae, antice acutato-attenuatae postice rotundato-adnexae, polymacriae primo ferrugineae dein atro-fuligineae, acie integrae albidae; anulus apicalis amplus (5-8‴ dm.) descendens crassiuscule membranaceus persistens tenacellus albus; stipes erectus rectus (50-60‴ lg.) farctus cum hymeniophoro continuus, sub pileo albus laevis teres (3‴ crs.), medio ex albo fuscescens, pruinulosus v. subimperspicue denseque longitudi-

naliter striatus (an in sicco tantum?), basi abrupte bulboso-incrassatus (15''' crs.), mycelio parco araneoso-gossypinulo terram adglutinante radicatus; sporae ellipsoideae v. ovatae (10 × 6-7 μ) leniter inaequilaterales laeves basi minute apiculatae, primo pellucidae fuligineae dein atrae opacae. Species pulcherrima nobilissima habitu *Lepiotae* cujusdam, *Pholiotis* atque *Stropharis* nonnihil accedens, ad interim huc adscripta.

97. Psathyrella crenata Lasch. ? — Sacc., l. c. f. 1134.

Hab. Ad terram uliginosam muscosam in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2879).

Obs. Pileus hemisphaericus (10-15''' diam.) minute umbonatus, badius, margine crenatus rufescens; stipes erectus rectus fragilis (60-70''' lg. × 1''' crs.) sordide albescens; sporae ex ovoideo sublimoniformes (12-14 × 9-10 μ) laeves atro-fuligineae opacae. Specimen brasiliense a typo nonnihil deflectens et facile speciem novam sistens, sed nonnihil exsiccatione obliteratum et ad interim huc relatum.

POLYPOREAE Fr.

98. Polyporus tricholoma Mntgn. — Sacc., Syll. hym. vol. II, f. 68.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2375).

Obs. Lentus, coespitosus; pileus orbiculari-convexus (30-40''' dm.) profunde umbilicatus azonus laevis centro albus ambitu pallescens margine brunneus acutus incurvulus in juventute hispidulus per aetatem glabratus; caro alba tenuiuscula (0,5-1''' crs.) tenacella compacta; hymenium album e tubulis breviusculis (1''' lg.), per apicem

stipitis decurrentibus lacero-sinuosis ad marginem pilei usque productis ore minuto rotundo (150-300 μ dm.) donatis albis, dissepimentis concoloribus tenuibus integris divisis efformatum; stipes erectus flexuosulus rigidus (30-35''' lg. × 2-3''' crs.) pileo obscurior glaber v. saepius deorsum albo-pruinulosus, basi fasciculato-connatus. Specimina puiggariana a typo satis recedentia et ad *P. agariceum* Brk. et *P. arcularium* (Btsch.) Fr. nonnihil vergentia!

99. Polyporus flexipes Fr. — Sacc., l. c. f. 69.

Hab. Ad palos cariosos putrescentes prope *Apiahy*, Oct. 1888 (sub n. 2916).

Obs. Pileus excentricus, e convexo infundibuliformis (50''' dm.) azonus primo lutescens dein rufescenti-fulvus, obsolete colliculosus, glaber, margine subinvolutus e pulverulento-hispidulus, e coriaceo mollis; caro tenuis (0,3-0,5''' crs.) fibrosa alba; stipes incurvulus (30-40''' lg.) irregulariter flexuosus, superne teres gracilis (3''' crs.) pallescenti-lutescens inferne leniter sensimque incrassatus (5''' crs.) saepeque compressus pallide rufescens e coriaceo sublignosus, primo pruinula subcinerascente vestitus dein glabratus non v. vix laxissime papillosus; hymenium in apicem stipitis subdecurrens, pallescenti-lutescens, e tubulis mediocribus (1,5-2''' lg.), centralibus irregulariter anguloso-elongatis (0,5-0,6''' dm.), marginalibus angulato-rotundatis minoribus (0,3-0,4''' dm.), dissepimentis concoloribus subtenuibus acie subdenticulatis divisis compositum; sporae non visae. Species pulchella priori satis affinis, sed summopere magnitudine formaque pilei ludens.

100. Polyporus stipitarius B. et C. — Sacc., l. c. f. 71.

Hab. Ad truncos arborum cariosos in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2361).

Obs. Lentus, solitarius; pileus e convexo profundiuscule umbilicatus (25–35''' dm.) tenuis, coriaceus azonus laevis testaceus v. fusco-rufescens, margine subinvolutus integer acutus glaber; caro tenuissima (0,3–0,5''' crs.) alba tenacella; hymenium non v. vix in apicem stipitis decurrens ad marginem pilei fere usque productum album, e tubulis minutissimis (150-200 μ dm.) angulosis, dissepimentis tenuibus integris compositum; stipes erectus rectus gracilis (30-40''' lg.) superne teres (2''' crs.) inferne leniter incrassatus (4''' crs.), albus v. fuscidulus rigidus glaber tenax; sporae globosae (4-5 μ dm.) grosse 1-guttulatae hyalinae subrugulosae. Specimina puiggariana a typo pileo subtestaceo, tubulis sublongiusculis stipiteque longiore nonnihil recedunt.

101. Polyporus pauperculus Speg. (n. sp.)

Diag. Lentus solitarius glaber; pileus orbicularis convexo-umbilicatus tenuis laevis fusco-cinereus; pori vix evoluti minuti albi; stipes brevis pileo concolor rigidus.

Hab. Ad palos vetustos diu intemperiis expositos in *Apiahy*, Jun. 1881 (sub n. 1032).

Obs. Pileus primo convexulus dein modice umbilicatus (15-50''' dm.) terreus v. fusco-cinereus glaber laevis margine integer acutus incurvulus epilosus; caro ligneo-alba coriacea tenuis (2''' crs.) in sicco rigida; hymenium in apicem pilei decurrens ad marginem usque productum album, e poris vix evolutis (0,2''' lg.) densissime constipatis ore minutissimo (150–200 μ) donatis, dissepimentis tenuibus integris compositum; stipes erectus rectus (10–30''' lg.) extus pileo concolor, intus ligneo-albus, lento-rigidus, superne teres (2''' crs.) inferne saepius sensim incrassatus (3–4''' crs.) laevis glaber. Species pulchella priori certe cognata, a qua tamen tubulis conspicue brevioribus vix evolutis recedens. Sporae non visae.

102. Polyporus diabolicus Speg. (n. sp.)

Diag. Lentus, glaber, solitarius: pileus suborbicularis convexo-umbilicatus subtenuis laevis rufescenti-helvolus, margine stricte involutus atque fusco-ater; pori longiusculi perconstipati minutissimi albi; stipes brevis fuscus glaber.

Hab. Ad trabes fabrefactas putridas in *Apiahy*, Apr. 1888 (sine n.).

Obs. Pileus crassiusculus lentus, in sicco coriaceus, e convexo plus minusve umbilicatus, suborbicularis (40–50‴ dm.) laevis glaber non v. vix obsoletissime 1-2–concentrice subzonatus, e fulvo rufescens v. testaceo–helvolus, margine integro acuto strictissime subinvoluto fusco-atro (an etiam in vivo?) glabro; caro ligneo-alba (1–2‴ crs.) compacta rigida, coriacea; hymenium non v. vix in apicem stipitis subdecurrens margine strictissimo acutissimo substerili cinctum, ex albo pallescens e tubulis longiusculis (1,5–2‴ lg.) densissime constipatis ore minutissimis (100-150 μ dm.) polygonis aequalibus, dissepimentis tenuibus integris efformatum; stipes erectus rectus v. subflexuosulus (20‴ lg. × 3‴ crs.) saepius subexcentricus, rufescenti-fuscus glaber laevis lignoso–rigidus tenax; sporae non visae. Species pulchra *P. flexipedi* Fr. proxima, sed satis distincta.

103. Polyporus brasiliensis Speg. (n. sp.)

Diag. Lentus glaber; pileus ex infundibulari flabellatus submembranaceo-coriaceus postice submarginatus laevis rufescenti-fuscus stipite concolore laterali noduloso crasso brevissimoque suffultus; hymenium sordide pallescens poris brevissimis minutissimisque efformatum.

Hab. Ad truncos languidos v. subemortuos in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2463).

Obs. Pileus solitarius tenuis membranaceo–pergameneus rigidulus v. saepe coespitoso–subimbricatus, flabellatus v. subspathulatus (50–60‴ lg. × 40–50‴ lt.) horizontalis postice subinfundibulari–depressus non v. modice mar-

ginatus, laevis glaber obscure castaneus v. rufescenti-fuscus margine lobatus v. fissus, acutus; caro vix evoluta fuscidula tenacella; hymenium in stipitem subdecurrens ad marginem usque productum sordide pallescens (an album in vivo?) tenuissimum vix evolutum, e poris brevissimis minutissimis (80–100 μ dm. et lg.) dense reticulato-constipatis rotundis compositum; stipes lateralis vix evolutus crassus (10''' lg. × 4-5''' crs.) pileo concolor glaber subscrupulosus; sporae globosae (2,5-3 μ dm.) non v. grosse 1-guttulatae, laeves hyalinae. Species habitu *P. guaranitico* Speg., simillima, pileo conspicue tenuiore, porisque brevissimis tamen satis recedens; an ejusdem varietas tantum?

104. Polyporus infernalis Brk. — Sacc., l. c. f. 83.

Hab. Ad truncos arborum in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1486–1685).

Obs. Pileus flabellatus v. subspathulatus (25-35''' dm. trans. × 20–25''' dm. ant.–post.) horizontalis planus v. saepius postice plus minusve depressus atque subinfundibularis non v. vix obsolete marginatus, suberoso-coriaceus, hepatico-niger, glaberrimus laevissimus subnitens, margine integer acutus rectus; caro suberosa tenuis (1-2''' crs.) sordide alutaceo-pallescens; stipes horizontalis v. verticalis brevis crassiusculus (5–15''' lg. × 3–4''' crs.) pileo concolor laevis v. vix subrugulosus; hymenium primo albo-cinerascens dein pallescenti-cinereum, in senectute sordide ferrugineum, planum, in stipitem decurrens e poris brevissimis (0,5-1''' lg.) ore minutissimis (80-100 μ dm.) rotundis aequalibus, in juventute pruinula tenuissima subcarnea obturatis efformatum, zona marginali sterili saepius latissima (1-4''' lt.) hepatico-nigra cinctum; sporae non visae. Species pulcherrima distinctissima; specimina puiggariana a typo pileo minore atque tenuiore vix deflectunt.

105. Polyporus albo-gilvus B. et C. — Sacc., l. c. f. 112.

Hab. Ad asseres vetustos putrescentes in *Apiahy*, Jul. 1881 (sub n. 1503).

Obs. Species pulchella *P. caesio* (Schrad.) Fr. cognata; pileus glaber, tactu tamen velutinus, laevis albus e reniformi flabellatus (25-30''' dm. trans. × 20''' dm. ant.-post.); caro alba tenuis (1-1,5''' crs.); pori compacti minutissimi longiusculi (1,5''' lg. × 150 μ dm.) in vivo gilvi in sicco albo-pallescentes, hinc inde caesio-rubiginoso maculati.

106. Polyporus roseus (Mntgn.) Speg. — Sacc., l. c. f. 55 (sub *Fistulina*).

Hab. Ad truncos vetustos rimosos in sylvis prope *Apiahy*, Maj. 1881 (sub n. 1500).

Obs. Dichrous; pileus dimidiatus, reniformis v. flabellatus (25-35''' dm. transv. × 15''' dm. ant.-post.) postice saepe subdecurrenti-effusus, non v. vix subungulatus, merismoideo-subimbricatus, carnoso-lentus, bibulus, margine obtusiusculus lobato-repandus in juventute superne velutinus, in vivo vivide roseus, in sicco roseo-rufescens, per aetatem saepius subglabratus; caro fibroso-spongiosula, sordide rufescens, postice crassiuscula (3''' crs.) ad marginem evanescens; hymenium inferum roseum e tubulis breviusculis minutis (0,5''' lg. × 200-250 μ dm.) angulosis, dissepimentis tenuibus integris, acie tomento v. furfure albo v. albo-roseo minuto vestitis compositum; sporae ellipsoideo-ovoideae (5 × 4 μ) laeves, hyalinae. Species pulchella habitu ac natura fere *Fistulinae*, sed hymenio vere polyporeo, pruinositate marginis dissepimentorum tantum anomala. Inter digitos compressa, in vivo, sordide lateritia evadit.

106. Fomes apiahynus Speg. (n. sp.)

Diag. Fomentarius, fulvo-contextus; pileus fusco-castaneus

opacus glaber sulcatus zonatus scalari-triqueter margine sterilis crassissimus truncatus; contextus fulvus; hymenium rufescenti-umbrinum, poris minimis punctiformibus stratosis acie planis; sporae non visae.

Hab. Ad truncos vetustos in sylvis prope *Apiahy*, Maj. 1881 (sub n. 1438).

Obs. Pileus solitarius semiorbicularis, postice truncato-adnatus (60–70''' dm. transv. × 30–40''' dm. ant.-post.) non v. vix subdecurrens, superne dense grosse concentrice scalari-sulcatus, cute tenuissima durissima tectus, sordide obscureque fusco-castaneus, in juventute saepe pruinula rubiginosa adspersus mox glabratus nudus opacus; caro compacta durissima lignoso-subflocculosa, obsolete zonata, diffracta fulva sericeo-nitens, secta subspadicea opaca, crassa (10–15''' crs.); hymenium inferum planum, postice decurrens, ambitu margine verticali sterili et obsolete poroso-punctulato latissimo (crassissimo) (10''' crs.) abrupte truncato-limitatum, rufescenti-umbrinum, e tubulis dense constipatis longis (10–15''' lg.), intus contextu vix discoloribus, extus ore rotundo minutissimo (150 μ dm.) primo pruinula fuscescenti-cinerea subevanescente obturatis, dein aperto-nudis, dissepimentis tenuibus donatis efformatum, parce stratosulum; sporae desideratae. Species *F. scalari* Brk. ut videtur peraffinis (an ejusdem tantum varietas?), margine latissime crassissimeque truncato tamen distincta.

107. Fomes ignarius (L.) Fr.? — Sacc., l. c. f. 180.

Hab. Ad truncos annosos in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1706).

Obs. Specimen unicum juvenile parum evolutum et subdubiosum.

108. Fomes australis Fr. — Sac., l. c. f. 176.

Hab. Ad truncos vetustos in sylvis prope *Apiahy*, Maj. 1881 (sub n. 2891).

Obs. Specimen adhuc inevolutum sed tamen distinctissimum.

109. Trametes? lilliputiana Speg. (n. sp.)

Diag. Pusilla; pilei subtenues rigido-coriacei ex effuso reflexo-imbricati, primo ferrugineo-puberuli dein subglabrati cinerei, laeves v. grosse concentrice sulcati, margine obtusi; contextus e fulvo ferrugineus; hymenium primo citrinum dein lutescenti-umbrinum, poris minimis dissepimentis obtusis.

Hab. Ad ramos dejectos arborum in sylvis prope *Apiahy*, Maj. 1881 (sub n. 1489-1835).

Obs. Pilei subungulati (5-20''' dm. transv. × 5-10''' dm. ant.-post.) coriaceo-rigidi, postice saepius adnato-decurrentes, dense aggregato-subimbricati, saepeque confluentes, superne quandoque (in senectute?) dense grosse ac plus minusve acute v. obtuse concentrice 3-5-sulcati ferruginei v. canescenti-rubiginosi minute subspongioso-puberuli, quandoque (in juventute?) vix ambitu 1-sulcati, subargenteo-cinerei, opaci glabri, margine semper obtusissime grosseque rotundati, saepeque citrino-subvelutini; contextus (2-5''' crs. tot.) in parte supera (2-3''' crs.) flocculoso-spongiosulus, sursum versus, ferrugineus, in parte infera (1-1,5''' crs.) compacto-lignosus fusco-ferrugineus in hymenium descendens; hymenium concaviusculum, primo citrinum, dein lutescenti-umbrinum zona sterili marginali subvelutina strictissima cinctum, e poris antice brevissimis (0,5''' lg.), postice elongatis (1-3''' lg.) intus fulvescentes, dense constipatis cum hymeniophoro concretis, ore rotundo minutissimo (100-120 μ dm.) primo pruinula citrina obturatis dein apertis, dissepimentis integris obtusis compositum; sporae non visae. An hymenium stratosulum? Species pulchella forma coloreque pilei ludens, inter *Fomites impolitos* et *Trametes* media, sed hymenii fabrica mox dignoscenda; *T. hispidula* B. et C.

proxima, nec non formae *F. conchati* (Prs.) Fr. a Cl. Ellis (N. Amer. fung. n. 918) editae peraffinis.

110. Daedalea ? diabolica Speg. (n. sp.)

Diag. Pileus orbiculari-dimidiatus v. flabellatus, tenuis, membranaceo-coriaceus, mollis, unicolor, albus, concentrice sulcatus, spongiosulo-velutinus; contextus albus; hymenium subporosum ligneo-album, dissepimentis tenuibus denticulato-laceris, radiatim v. concentrice dispositis efformatum.

Hab. Ad palos vetustos putrescentes prope *Apiahy*, Aut. 1881 (sub n. 1710).

Obs. Pilei solitarii v. gregarii, quandoque orbiculari-dimidiati, quandoque flabellati (10-30''' dm. transv. × 5-15''' dm. ant.-post.) postice truncati v. subcuneati, planiusculi, margine acuti integri repanduli, membranaceo-coriacei, flexiles, superne albi v. ligneo-albi, molliter adpressissimeque spongiosulo-velutini v. subhispiduli, plus minusve grosse crebre ac concentrice sulcati, unicolores; contextus tenuis (0,5''' crs.) flocculoso-stupposo candido; hymenium e ligneo album, e poroso hirpicoideo-lamellosum, lamellulis plus minusve elongatis (0,5-1''' lg.) tenuibus, acie denticulato-laceris acutis; sporae non visae. Species pulchella pileo *Polysticto biformi* Klotz simillima, hymenio autem fere *Polysticti lacerati* Brk., ab utroque tamen satis distincta; an huc *Daedalea Hobsonii* Brk.?

111. Polystictus Puiggarii Speg. (n. sp.)

Diag. Sacer, mesopus; pileus orbicularis umbilicatus tenuis papyraceus rigidulus crenulatus nitidulus castaneus azonus; stipes rectus gracilis pileo obscurior glaber; hymenium e pallescente subcinerascens, poris brevissimis minutis subrotundis.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Solitarius; pileus e convexo applanatus plus minusve umbilicatus orbicularis (10-15‴ dm.) tenuiter papyraceus, in sicco rigidulus, margine acutissimus incurvulus minute obsoleteque crenulatus, obscure castaneus azonus glaberrimus opacus, laevis v. obsolete minutissimeque radiatim substriatus, contextu tenuissimo (0,3‴ crs.) albo fibroso donatus; hymenium ex albo pallescenti-cinereum non decurrens, margine zona strictissima saepeque deficiente alba sterili cinctum, e poris brevissimis (0,2-0,3‴ lg.) intus albis ore minutissimo (150 μ dm.) rotundo plano dissepimentis tenuibus acie integris cinerascentibus compositum; sporae non visae; stipes erectus rectus (20-25‴ lg. × 2‴ crs.) laevis v. irregulariter (an in sicco tantum?) laxeque rugulosus, fusco-ater, in juventute nubecula obscure ferruginea detersili vestitus, intus albus farctus compactus rigidus tenax basi abrupte insititius. Species pulcherrima elegantissima *P. marasmioidi* Brk. peraffinis, a qua pileo azono castaneo recedit; an ejusdem tantum varietas?

112. Polystictus sanguineus (L.) Mey. — Sacc., l. c. f. 229.
Hab. Ad palos truncosque putrescentes vulgatus prope *Apiahy*, Aut. 1881 (sub n. 1501).

113. Polystictus biformis Klotz. — Sacc., l. c. f. 240.
Hab. Ad truncos vetustos in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1572-1616).
Obs. Pilei quandoque peltati resupinato-effusi v. saepius spathulato-flabellati (40-50‴ dm. transv. × 25-30‴ dm. ant.-post.) dense constipati imbricati saepius confluentes, tenues coriaceo-stuppei rigidulo-molles, planiusculi, primo sublaeves dein concentrice majusculeque sulcati, albi, adpresse e spongioso tomentosulo-velutini, margine obtuse acutati repanduli; contextus tenuis (1‴ crs.) albus stupposus; hymenium ex albo pallescens v. pallide ligni-

color poris mediocribus (300-350 μ dm.) brevissimis inaequaliter rotundato-angulosis saepe gyroso-confluentes, dissepimentis crassiusculis apice obtusis integris v. sublaceris efformatum, zona marginali sterili plus minusve evoluta (1-1,5''' lt.) cinctum; sporae non visae.

114. Polystictus proditor Speg. (n. sp.)

Diag. Pileus tenui-coriaceus flabelliformis, zonatus, rufescens adpresse subpulverulentus, stipite brevissimo in discum rufum velutinum dilatato suffultus; contextus albus; hymenium e poris brevibus minutis dissepimentis tenuibus compositum.

Hab. Ad ramos dejectos emortuos in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1618-1674).

Obs. Pilei tenues coriacei subrigidi flabellati postice cuneati v. saepius reniformes (25-40''' dm. transv. × 20-30''' dm. ant.-post.) applanati, sordide rufescenti-alutacei, plus minusve laxe concentriceque zonati, zonis rufis glabris non v. vix sericeo-subnitentibus, margine repanduli v. subcrenati obtusiusculi pallidiores subvelutino-pruinulosi, postice depressi ac stipite brevissimo obscure rufo subvelutino, non v. plus minusve peltato-dilatato subtuberculoso suffulti; contextus albus flocculosus tenuis (1,5''' crs.); hymenium pileo concolor v. subcinerascenti-alutaceum, poris minutis (200 μ dm.) rotundis v. angulosis, dissepimentis tenuibus integris v. lamelloso-laceris compositum, zona marginali strictissima, rarius obsoleta limitatum. Species pulchella elegans *P. versicolori* (L.) Fr. proxima, vix stipite basi in orbem dilatato recedens, atque *P. luteo* Bl. et Nees. nonnihil accedens. Hymenium e latere visum ex albo alutaceum, verticaliter inspectum obscure rufescens.

115. Polystictus luteus Bl. et Nees ? — Sacc., l. c. f. 218.

Hab. Ad asseres diu intemperiis expositas in *Apiahy*, Aest. 1881 (sub n. 1679).

Obs. Pilei simplices v. connato-subimbricati, cuneato-flabellati (30–35‴ dm. transv. × 25–35‴ dm. ant.-post.) coriacei tenues rigido-duri persistentes, utrinque applanati, glabri obsolete strictissemeque zonati lutei v. praecipue in parte postica rufescenti-castanei, opaci v. leniter sericeo-nitentes, margine acuti e crenato lobati, stipite brevissimo saepeque obsoleto plus minusve tuberculoso atque peltato-effuso suffulti; contextus tenuis (1‴ crs.) albus compactus; hymenium pileo concolor v. sordide pallideque subrufescens e tubulis (0,5–1‴ lg.) dense constipatis, ore irregulari minuto (150-220 μ), dissepimentis longe denticulato-laceris compositum; sporae non visae. An melius forma *P. hinnulei* B. et Ck., Sacc., l. c. f. 234?

116. Polystictus subhydrophilus Speg. (n. sp.)

Diag. Pileus carnoso-coriaceus e reniformi flabellatus glabratus sordide e lutescente rufescens ambitu zonatus pulverulento-velutinus margine lobatus, postice in stipite brevi crassoque angustatus; contextus albus; hymenium sordide pallescens, poris minimis angulosis denticulatis.

Hab. Ad palos cariosos mucidos in hortis, *Apiahy*, Aest. 1881 (sub n. 1514).

Obs. Pilei solitarii v. gregarii saepeque subimbricato-confluentes, dimidiato-flabellati (30–50‴ dm. transv. × 15–20‴ dm. ant.-post.), postice reniformes v. cuneati, superne densissime irregulariterque scrupulosi glabri sordide pallescenti-sublutescentes, zonis concentricis paucis obsoletis rufescentibus ornati, margine obtusi lobati v. crenati subsulcati saepeque fissi molliter pulverulento-velutini alutaceo-pallescentes, in vivo utrinque applanati subcarnoso-succosi, in sicco, ambitu praecipue, con-

tracto-subcrispati ligneo-durissimi; contextus albus tenuis ($1'''$ crs.) subfibrosus; stipes brevis crassus ($10'''$ lg. $\times$ $10'''$ crs.) basi plus minusve dilatatus, inferne subevanescens, pileo concolor, scrupuloso-glabratus; hymenium sordide pallescens non v. vix ad griseum v. carneum vergens, zona marginali sterili pallescente strictissima ubique cinctum, e tubulis tenuissimis dense constipatis (1–$1{,}5'''$ lg.) intus ligneis, ore irregulari saepius retrorsum elongato non v. vix subgyroso minuto (150–200 μ dm.), dissepimentis tenuibus efformatum; sporae non visae. Species sordida *P. hydrophili* B. et C. peraffinis, sed cum ejusdem speciminibus cubensibus comparata satis recedens.

117. Polystictus versicolor (L.) Fr. — Sacc., l. c. f. 253.

Hab. Ad palos truncosque emortuos ubique prope *Apiahy*, per ann. 1880–88.

Obs. Inter formas hujusdem speciei missas, sequens (sub n. 2887) magis anomala atque describenda videtur: Pileis e basi late tenuiterque effusa adsurgentibus dense imbricato-congestis, quandoque flabellatis, quandoque dense laciniato-dissectis, laciniis apice obconico-expansis infundibuliformibus hymeniophoris, postice scruposo-papillosis e glabrato velutinis subsericeo-nitentibus, ambitu dealbatis glabris opacis, margine acutis crenatis; contextu flocculoso compacto crassiusculo (1–$2'''$ crs.) albo, cum hymenio continuo; hymenio albo e poris minutis brevissimis dissepimentis subtenuibus primo obtusis dein acutiusculis sublaceris. Forma *P. cristulato* Speg. nonnihil accedens.

118. Polystictus rufo-pictus B. et C. — Sacc., l. c. f. 255.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Aest. et Aut. 1881 (sub n. 1571-1641).

Obs. Pilei tenuiusculi coriacei rigiduli solitarii v. plus minusve dense giegarii saepeque imbricati, dimidiato-flabellati (20-40''' dm. transv. × 20-25''' dm. ant.-post.), postice cuneati v. reniformes, puncto plus minusve incrassato adfixi, rarius confluentes applanati v. convexuli, margine acuti integri v. subcrenato-lobati, radiatim undulato-rugulosi, pubescentia velutina opaca minuta adpressa cinerea v. cinereo-rufescente vestiti, zonis 2 (rarius 3) latiusculis (2-4''' lt.) glabratis aureo-rufis nitentibus concentricis ornati; contextus tenuis (1''' crs.) albus compacto-flocculosus; hymenium sordide e pallescente alutaceum, e poris dense constipatis breviusculis (1''' lg.), ore minuto (150-200 μ dm.) rotundato-angulato, dissepimentis tenuibus integris compositum. Species pulcherrima priori summopere affinis a qua colore atque poris magis regularibus praecipue recedit.

119. Polystictus sobrius B. et C. — Sacc., l. c. f. 264.

Hab. Ad palos cariosos putrescentes in hortis, *Apiahy*, Aut. 1881 (sub n. 1494).

Obs. Pileus tenuiter membranaceus rigidulus planissimus, postice plus minusve cuneatus (20-25''' dm. transv. × 15-20''' dm. ant.-post.) margine acutissimus integer v. vix crenulatus, primo subpulverulento-pruinulosus dein glaberrimus umbrino-cinereus nebulosus opacus, zonis obsoletis densis strictissimis subpurpurascentibus opacis saepeque deficientibus ornatus, puncto postico tuberculoso-incrassato adfixus; contextus tenuissimus (0,5''' crs.) ex albo perdilute fuscescens flocculosus; hymenium sordide e pallescente subcinereum, zona saepius latiuscula (1-1,5''' lt.) sterili marginali cinctum, e tubulis brevissimis (0,5''' lg.) ore minutissimis (120-150 μ dm.), primo rotundato-angulatis integris dein subgyroso-laceris, dissepimentis tenuissimis compositum; sporae non visae. Forma pulchella *P. sectori* (Erh.) Fr. accedens; an ejus-

dem varietas?; specimina puiggariana a typo pororum minutie nonnihil recedunt.

120. Polystictus hirsutus Fr. — Sacc., l. c. f. 257.

Hab. Ad trabes putrescentes in *Apiahy*, vere 1881 (sub n. 1500).

121. Polystictus veluticeps Speg. (n. sp.)

Diag. Coriaceus, versicolor, hirsutus; pileus crassiusculus e cupulato orbiculari-dimidiatus, postice marginatus dorso umbonatus ibique puncto adfixo, grosse dense atque concentrice sulcatus sordide albo-pallescens, velutino-hirsutus unicolor; contextus albus; hymenium sordide album, poris brevissimis minutis, dissepimentis obtusis efformatum.

Hab. Ad palos emortuos in hortis prope *Apiahy*, Aut. 1881 (sine n.).

Obs. Pileus solitarius crassiuscule coriaceus subflexilis, cupulato-concavus, valvae conchilii e *Venus* genere simillimus, ex orbiculari subdimidiatus (40''' dm. transv. × 25''' dm. ant.-post.) postice late marginatus ubique liber, dorso umbonatus puncto tantum matrici adfixus, margine obtusiusculus integerrimus, sulcis crassiusculis densis (marginem versus subevanescentibus) notatus, sordide obscureque ex alutaceo pallescens, dense velutino-hispidus; contextus (1''' crs.) albus compactus fibroso-flocculosus; hymenium tenuissimum zona marginali sterili subobsoleta obtusa cinctum, sordide pallescens, e tubulis brevissimis (0,3''' lg.) densissime constipatis, ore minutis (150-200 μ) rotundis integerrimis, dissepimentis tenuibus acie obtusis compositum. Species elegans *P. pectunculo* Lév. certe proxima, sed satis distincta.

122. Polystictus umbonatus Fr. — Sacc., l. c. f. 266.

Diag. Ad palos vetustos putrescentes in hortis prope *Apiahy*, Aest. 1881 (sub n. 1509).

Obs. *Exagonia Friesiana* Speg. in Fung. guar. pug. I, n. 55 edita, huc sine ullo dubio ducenda, ut varietas poris conspicue latioribus donata.

123. Polystictus consobrinus Speg. (n. sp.)

Diag. Pileus tenuis coriaceus flabellatus, planus cervinus purpureo-zonatus adpressissime velutinus subsericeo-nitens; contextus sordide albus; hymenium sterili-marginatum, fusco-pallescens, poris brevibus irregularibus mediocribus, centro lamelloso-dentatis.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1634).

Obs. Pilei solitarii gregarii, saepe lateraliter confluentes, dimidiato-flabellati (20-35‴ dm. transv. × 10-18‴ dm. ant.-post.) postice subcuneati v. reniformes applanati margine integri v. obsolete crenati acuti, cervini v. umbrino-v. rufescenti-cervini, zonis 2 (rarius 3) purpurascentibus strictis subglabratis concentricis ornati, ubique adpressissime puberulo-velutini, subsericeo-nitentes; contextus tenuis (0,5 crs.) e fibroso flocculosus tenax ex albo perdilute subfuscescens; hymenium planum antice zona marginali sterili latiuscula (1-2‴ lt.) cinctum, e poris ore mediocribus (0,4-0,6‴ dm.) rotundato-angulosis, ambitu integris, centro dentato-laceris brevibus (0,5-0,8‴ lg.), dissepimentis tenuibus efformatum, sordide e fusco pallescens. Species *P. pinsito* Fr. cognata, sed pileo subcrassiore magis rigido cuneato-flabellato adpresse velutino, poris hymenii minoribus recedens.

124. Polystictus Kixianus Lév. — Sacc., l. c. f. 264.

Hab. Ad caudices emortuos in sylvis prope *Apiahy*, Maj. 1888 (sine n.).

Obs. Pilei solitarii v. laxe gregarii, dimidiato-orbiculares v.

flabellati (20-25''' dm. transv. × 15-20''' dm. ant.-post.) tenues coriacei e rigido flexiles applanati v. convexuli, postice cuneati, truncati v. subreniformes, ibique saepius depressuli, stipite brevissimo tuberculoso horizontali, saepe deficiente, suffulti, unicolores, candidi v. vix hinc inde obsoletissime subrufescentes, glaberrimi subnitentes, ambitu leniter concentrice sulcati, margine acuti integri v. vix repanduli; contextus tenuis (1''' crs.) albus flocculosus; hymenium applanatum v. concaviusculum zona sterili marginali stricta alba cinctum, sordide ochroleucum e poris breviusculis (1–2''' lg.) dense constipatis, ore rotundato-angulosis minutis (200 μ dm.), dissepimentis integris tenuibus acutiusculis efformatum; sporae non visae. Species pulcherrima pileo subcuticuloso candido glaberrimo ex opaco nitente distinctissima.

125. Polystictus tenuis (Lk.) Ck.? — Sacc., l. c. p. 288.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Apr. 1881 (sub n. 1511).

Obs. Pilei tenues coriacei rigiduli dimidiato-flabellati (60-70''' dm. transv. × 45–50''' dm. ant.-post.) postice truncati v. subcuneati, puncto marginali-dorsali incrassato adfixi, applanati, margine acutissimi dense crenato-lobati, radiatim ruguloso-fibrillosi, rufescenti-cervini, glaberrimi subsericeo-nitentes, laxe 3–4-zonati, zonis strictis subobsoletis quandoque glabratis purpurascentibus, quandoque rufo-pulverulentis; contextus tenuis (1''' crs.) sordide lignicolor v. pallescenti-fuscidulus ; hymenium applanatum v. saepius radiatim undulato-rugulosum zona sterili marginali stricta saepius obsoleta cinctum, cervinum, e poris brevibus (0,5''' lg.) dense constipatis, ore angulatis minutis (150 μ dm.) saepius integris, dissepimentis tenuibus donatis compositum. Species *P. sectori* (Ehr.) Fr. subsimilis, sed certe diversa.

126. Polystictus sector (Ehr.) Fr. — Sacc., l. c. f. 285.

Hab. Vulgatos ad palos vetustos diu intemperiis expositos prope *Apiahy*, Aut. 1881 (sub n. 1646).

Obs. Specimina nonnulla typica poris integris, nonnulla alia poris lacero-gyrosis *P. ludenti* Speg. vergentia.

127. Polystictus sordidissimus Speg. (n. sp.)

Diag. Pileus applanato-flabellatus, margine acutus crenato-fimbriatus, radiatim rugoso-rivulosus, primo tomento sordide cinerascente leproso tectus dein ambitu late glabratus, sordide e terreo umbrino-fuscus; contextus fusco-umbrinus lamelloso-spongiosus; hymenium umbrino-fuscum poris brevissimis minutis dissepimentis denticulatis.

Hab. Ad palos putrescentes humo obovolutos in sylvis prope *Apiahy*, Aest. 1881 (sub n. 1582).

Obs. Pilei solitarii v. hinc inde laxe gregarii flabellati (50-60''' dm. trans. $\times$ 30''' dm. ant.-post.) postice truncati v. subcuneati, latiuscule adnati, planissimi, subtenues rigiduli, margine acutissimi recti, dense irregulariterque subfimbriato-crenati, concentrice non zonati nec sulcati, sed radiatim crebre rugoso-subfibrosi, primo tomento adpresso crassiusculo leproso sordide cinerascente tecti, dein praecipue ambitu plus minusve late glabrati, terrei v. umbrino-fusci, maculis obsoletissimis subvinosis inspersi; contextus fuscus v. umbrino-fuscus, crassiusculus (2-2,5''' crs. ad basin) grosse lamelloso-spongiosus lacunosus; hymenium umbrino-fuscum v. sordide e cinereo fuscum, ad marginem usque productum tubulis brevissimis (0,5''' lg.), ore anguloso minuto (150 μ dm), dissepimentis tenuibus acie acutis denticulatis compositum; sporae non visae. Species habitu fere *P. versicoloris* Fr. subputrescentis, hymenioque *P. sectori* (Ehr.) Fr., contextu autem lacunoso-lamelloso distinctissima.

128. Polystictus papyraceus Fr. — Sacc., l. c. p. 287.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1621).

Obs. Pilei resupinati suborbiculati (20-30''' dm.) papyracei flexiles ambitu libero-reflexi, dorso ligneo-pallescentes, glabri v. radiatim minute denseque cristulato-papillulati; contextus tenuis (0,3''' crs.) albus ; hymenium e poris mediocribus (220-280 μ dm.) angulosis, saepe elongato-decurrentibus dissepimentis integris acutiusculis compositum, sordide album v. pallidissime lignicolor, zona marginali strictissima cinctum. Species pulchella distinctissima sed a *Poriis* nullo modo separanda mihi videtur !

129. Polystictus gleoporoides Speg. (n. sp.)

Diag. Membranaceus; pileus coriaceus tenuis rigidus flabellatus tomento farinoso arcte adpresso albo-cinerascente, zonis concentricis subobsoletis subglabratis vinosis ornatus; contextus fuscus; hymenium plumbeo-cinereus, tubulis brevibus, ore rotundis minutissimis compositum.

Hab. Ad palos vetustos putrescentes in hortis, *Apiahy*, Jun. 1881 (sub n. 1497).

Obs. Pilei tenues coriacei rigiduli dimidiati subspathulati v. flabellati (40-50''' dm. trans. × 30-40''' dm. ant.-post.), in vivo applanati in sicco subconchato-contractuli, margine acuti, subcrenato-lobulati, postice truncati v. cuneati plus minusve adnati, superne tomento arcte adpresso compactiusculo tenui ex albo sordide obsoleteque cinerascente v. pallescente, zonis 2-3, praecipue marginalibus, latiusculis (1-3''' lt.), glabratis nebuloso-vinosis ornatus; contextus fibroso-compactus fuscus tenuis (0,3-0,5''' crs.); hymenium cinereo-plumbeum v. cinereo-glaucum e tubulis brevibus (0,5-1''' lg.) perconstipatis intus cinereis, ore rotundato-angulosis (100-120 μ dm.) dissepimentis tenuibus acie integris obtusis glaucis compositum, in vivo ac in juventute carnosulo-subceraceum dein subcar-

tilagineum ac in sicco subrimulosum; sporae non visae. Species pulcherrima habitu *P. sectori* (Ehr.) Fr. affinis, in juventute natura fere *Gleoporoidea* distinctissima.

130. Gleoporus candidus Speg. — Sacc., l. c. f. 403.

Hab. Ad truncos ramosque emortuos in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1617).

131. Gleoporus rhipidium (Brk.) Speg. — *Favolus rhipidium* Brk. — Sacc., l. c. f. 397; *Gleoporus pusillus* Lév. — Sacc., l. c. f. 404.

Hab. Ad rimas truncorum ramorumque languentium prope *Apiahy*, per ann. 1881 (sub n. 1512-1633).

Obs. Pileus ex orbiculari reniformis (10–15''' dm.), alutaceo-coccineus v. roseo-pallescens, glaber v. subpulverulento-furfuraceus, laevis v. concentrice sulcatus; stipes plus minusve elongatus (3-8''' lg. × 1''' crs). teres alutaceus rufescens v. flavescens; hymenium in vivo primo subtremelloideum dein carnosulo-ceraceum, poris elongatis, marginalibus praecipue fere radiato-lamellosis, roseis carneis v. rubris, saepe glaucescenti-pruinosis. Species pulcherrima admodum variabilis.

132. Gleoporus guaraniticus Speg. — Sacc., l. c. f. 406 (sub *Laschia*).

Hab. Ad ramos dejectos putrescentes in umbrosis prope *Apiahy*, Maj. 1888 (sub n. 2897).

Obs. Species *G. rhipidio* (Brk.) Speg. peraffinis, a quo tamen pileo convexo saepius sessili albo v. alutaceo-albo glabro non v. vix obsoletissime papuloso hymenioque pallidiore non radiatim evoluto recedit.

133. Favolus? Puiggarii Speg. (n. sp.)

Diag. Pileus tenuis e membranaceo subcarnosulus orbicularis convexulus postice abrupte profundeque depressus,

ibique cordato-fissus, superne papulosus fusco-rufescens glaber; hymenium pileo vix pallidius, poris magnis rhomboideis, dissepimentis membranaceo-carnosulis integris; stipes definite lateralis horizontalis teres tenuis puberulus ex albo pallescens.

Hab. Ad caudices putrescentes in sylvis prope *Apiahy*, Apr. 1881 (sub n. 1443).

Obs. Pileus tenuiter carnosulo-membranaceus orbicularis (5–10$'''$ dm.) convexulus horizontalis margine integer, centro minute profundeque umbilicatus postice strictissime cordato-fissus, rima ad umbilicum usque producta, superne subbullosus, bullis centralibus majoribus marginem versus gradatim minoribus, in sicco fusco-umbrinus v. badius (an pallescenti-alutaceus in vivo?) glaber, quandoque sub lente valida minutissime pulverulentus; hymenium inferum fusco-pallescens (album in vivo?) poris exagonis mediis majusculis ac profundis (0,5-1$'''$ dm. $\times$ 0,5–1$'''$ prof.), periphaericis sensim minoribus brevioribusque, dissepimentis subcarnosulo-membranaceis acie obtusis integris donatum; sporae ellipsoideae (8–10 $\times$ 4–5 μ) laeves, hyalinae; stipes sub umbilico centrali pilei exsurgens elongatus, horizontalis v. subverticalis teres gracilis (4–8$'''$ lg. $\times$ 0,5$'''$ crass.), deorsum non v. vix incrassutulus fistulosus pileo pallidior, pruinula minutissima alba vestitus. An *Laschia papulata* Mntgn. typica?

134. Favolus? pygmeus Speg. (n. sp.)

Diag. Pileus peltato-resupinatus v. reniformi-horizontalis tenuissime membranaceus subtremellosus ex albo pallescens v. subfulvescens superne papulosus glaber; hymenium pileo concolor grosse polygono-alveolatum; stipes nullus v. vix evolutus concolor.

Hab. Ad ramos dejectos emortuos in dumetis prope *Apiahy*, Aut. 1881 (sub n. 1650).

Obs. Sparsus v. laxe gregarius; pilei tenuissime membranacei e carnoso subtremellosi minuti (1–5''' dm.) quandoque scutato-resupinati, quandoque ex orbiculari dimidiato-reniformes, puncto v. stipite brevissimo laterali adfixi, horizontales, margine integri, superne convexuli grosse bullosi glabri e pallescente subfulvescentes (albi in vivo?); hymenium pileo concolor v. pallidius, poris centralibus elongato-radiantibus e triangulari pentagonis majoribus profundiusculis (0,5–1''' long. $\times$ 0,5''' prof.), periphaericis sensim minoribus brevioribusque exagonis dissepimentis membranaceo-carnosulis acie integris obtusis efformatum; sporae globoso-ovatae (6-9 $\times$ 4-6 μ) laeves, hyalinae; stipes deficiens (in pileis resupinatis) v. vix evolutus (in horizontalibus) brevissimus tuberculiformis, pileo concolor v. vix pallidior. An *F. pusilli* Fr. varietas? Species pusilla ut prior natura inter genera *Favolum* et *Laschiam* vere media.

135. Laschia auriscalpium Mntgn. — Sacc., l. c. f. 407.

Hab. Ad culmos dejectos putrescentes *Bambusae* cujusdam in uliginosis prope *Apiahy*, Aut. 1881 (sub n. 1443).

Obs. Species jam sub *L. papulata* Speg. (nec Mntgn.) in Fung. arg. pug. IV, n. 28 imprudenter edita; specimina magis evoluta ac eximie servata nunc adhibita, sic describenda videtur: Pileus e membranaceo carnosulus subtremelloideus ex orbiculari reniformis (4–5''' dm.) convexulus, obsolete papulosus glaber sordide e fusco-lutescens, margine integer; hymenium planum alveolis rotundato-exagonis brevibus (150-250 μ dm. $\times$ 0,3-0,4''' prof.), dissepimentis pro ratione crassiusculis acie integris obtusis compositum; stipes lateralis elongatus teres (3-5''' long. $\times$ 0,3-0,4''' crass.) fistulosus, pileo pallidior, non v. vix subpulverulentus; sporae ovoideo-subglobosae (8 $\times$ 5–6 μ) laeves hyalinae. Species *Favolo Puiggarii* Speg. nonnihil accedens sed certe distincta.

136. Merulius pezizoideus Speg. (n. sp.)

Diag. Pileus tenuiter membranaceus pezizaeformis, extus albus glaber, stipite gracili longiusculo rigidulo concolore suffultus; hymenium e pallescente subfulvum, venulis e centro radiantibus ramoso-anastomosantibus irregulariter reticulatum.

Hab. Ad tigilla dejecta putrescentia in hortis, *Apiahy*, Aut. 1881 (sub n. 1465).

Obs. Solitaria v. laxe gregaria; pilei tenues membranacei flaccidissimi e campanulato infundibuliformes (5–18''' dm. × 250 μ crass.) ambitu integri v. vix undulati, extus albi (albo-pallescentes in sicco), glabri (tactu tamen subvelutini), laeves v. vix obsoletissime subruguloso-reticulati, in stipite centrali v. subexcentrico dorsali recto erecto elongatulo (5-15''' lg. × 0, 3–0,8''' crs.) non v. vix flexuosulo insititio, concolore v. saepius fuscescente cuneato-producti; hymenium totam superficiem internam (superam) pilei obtegens e pallescente fulvescens glabrum, venulis e centro (umbilico) radiantibus dense reticulato-anastomosantibus parum prominulis gracillimis carnosulo-subtremelloideis, masculis irregulariter elongato-subexagonis (1–3''' dm.) efformatum; sporae non visae. Species elegantissima *Pezizae* cujusdam habitu simillima, ad genus *Laschiam* nonnihil vergens.

137. Merulius lacrymans (Jacq.) Fr. — Sacc., l. c. f. 419.

Hab. Ad asseres vetustos putrescentes in *Apiahy*, Maj 1888 (sub n. 2844).

Obs. Specimina brasiliensia insectis nonnihil obliterata, tenuia late effusa obscure ferruginea margine extenuata dealbata, hymenio irregulariter colliculoso-subvenuloso donata. An *Stereum papyrinum* Mntgn. hujusdem speciei forma sterilis depauperataque ?

HYDNEAE Fr.

138. Hydnum flavum Brk. — Sacc., l. c. f. 456.

Hab. Ad truncos ramos caudicesque putrescentes in sylvis prope *Apiahy*, per ann. 1881-88 (sine n. et sub n. 2889).

Obs. Species pulcherrima a genere *Hydno* facillime separanda ac melius *Hymenochaeti* adscribenda, sat variabilis; formae nobiliores haec 3 sequentes:

a) Pilei coriaceo-membranacei, in sicco rigiduli, dimidiato-flabellati (5-20''' dm.) subcucullato-convexuli, postice cuneati non marginati laevissimi; contextus sordide albo-pallescens compactus tenuis (0,5''' crass.); hymenium e pallescente lutescens aculeis cylindraceo-conoidei (150-200 × 50-60 μ), laxiusculis pallide subferrugineis apice sfacelatis atque pallidioribus vestitum.

b) Pilei tenues coriacei, rigidi in sicco, ex orbiculari reniformes subcucullato-convexuli (40-50''' dm.) postice emarginati, stipite brevissimo vix evoluto peltato-dilatato (5-10''' lt.) adfixi, margine integri cristula tenuissima acuta strictissima vix perspicua aucti, fulvo-rufescentes, unicolores, glaberrimi laevissimi; contextus albus compactus subtenuis (1''' crs.); hymenium ex albo pallescens aculeis obscure ferrugineis, cylindraceo-conoideis (200-250 × 40-45 μ) subconfertiusculis apice integris acutissimis vestitum.

c) Pilei tenuiter membranacei, e rigidulo flacciduli, dimidiato-suborbiculares, cucullato-subgaleati (90-100''' dm. trans. × 60-80''' dm. ant.-post.) postice profunde cordato-sinuati marginati stipite parvulo brevissimo tuberculiformi subdorsali adfixi, ambitu integri v. vix subrepanduli, e lutescente sordide pallideque fulvescentes, lituris radiantibus fuscescentibus ramulosis saepe anasto-

mosantibus variegati, margine zona strictissima ferruginea ornati, laevissimi, glaberrimi; contextus albus, marginalis tenuissimus (0,3–0,5''' crs.), postice ad stipitem crassiusculus (1–2''' crs.) compactus; hymenium ex albo sulfureum v. pallide lutescens aculeis laxiusculis conoideo-elongatis (150-200 × 60–65 μ) base albo-luteis apice acutissimis integris rufescentibusque vestitum. An huc *H. brunneo-leucum* B. et C.?

139. Hydnum Puiggarii Speg. (n. sp.)

Diag. Pilei coriacei duri azoni effuso-reflexi vix pulverulento-pruinulosi antice pallescentes postice subrufescentes, contextu ligneo-fuscescente; aculei ligneo-pallescentes conferti breves subaequales acuti saepius integri.

Hab. Ad truncos languidos in sylvis prope *Apiahy,* ann. 1881 (sub n. 1700).

Obs. Pilei solitarii v. saepius aggregato-confluentes elliptico-suborbiculares (30-40''' dm. trans. × 30''' dm. ant.-post.) effuso-reflexi, in dimidia parte postica adnato-decurrentes, in dimidia antica horizontaliter flabellato-liberi coriacei (in sicco) rigidi duri, margine integri v. repandi, obtuse acutati, deorsum e rufescente pallide ferruginei, subimperspicue adpresseque pulverulento-velutini, ambitu lignicolores subglabrati opaci; contextus compactus subligneus subericolor crassiusculus (2,5-3''' crs.) gradatim periphaerice attenuatus; hymenium ex albo lignicolor, zona marginali sterili laevi plus minusve lata (1-5''' lat.) concolore cinctum, planum v. colliculoso-scrupulosum, aculeis verticalibus confertis e cylindraceo subtriquetris non v. compressiusculis mediocribus (1–2''' lg. × 0,5''' crs.) apice acutis integris v. vix 1–2 denticulatis concoloribus vestitum. Species *H. pudorino* Fr. affinis, pileo fere glabrato sublignoso-coriaceo satis tamen recedens.

140. Hirpex cartilagineus Speg. — Sacc., l. c. f. 491.

Hab. Ad cortices truncorum putrescentium in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1,508).

Obs. Hymenium in juventute ex albo cinereo-argenteum per aetatem sordide ferrugineum; specimina brasiliensia formae effusae *Polysticti floridani* Brk. (Rav. Nort-Am. fung. n. 7) satis accedentia.

141. Grandinia granulosa Fr. — Sacc., l. c. f. 501.

Hab. Ad ligna putrida mucida in sylvaticis prope *Apiahy*, Maj. 1888 (sub n. 2359).

THELEPHOREAE Pers.

142. Thelephora lilliputiana Speg. (n. sp.)

Diag. Minuta helvola dense coespitosa; pilei tenues papyracei rigiduli flabellati antice saepius integri postice cuneati saepius ramulosi, superne glabri fibrillosi pallescenti-rufescentes; contextus albo-ligneus; hymenium concaviusculum helvolum subpulverulentum.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2372).

Obs. Coespites laxe gregarii v. sparsi e rimis corticis erumpentes flabellati (10''' dm. trans. $\times$ 5–6''' dm. ant.-post.) dense intricato-pileiferi; pileoli spathulato-flabellati (2-3''' dm. trans.) margine acutiusculi integri tenuiter papyraceo-rigiduli, applanati v. convexuli, postice in stipite cuneato-attenuati, superne pallescenti-rufescentes dein sordide pallescentes, glabri azoni, vix sub lente valida radiatim obsoleteque fibrillosi; contextus compactus lignicolor tenuis; hymenium e plano concaviusculum helvolum v. carneum, primo pruinoso-pulverulentum dein glabratum; stipites e nodulo communi crassiusculo albe-

scente lignoso dense fasciculato-adsurgentes (2-4''' long.) sursum dense ramoso-lobati, ramulis quandoque pileatis quandoque lineari-elongatis sterilibus; sporae non visae. Species trivialis pusilla habitu saepe *Hymenochaeti asperae* Brk. similis, sed mox dignoscenda.

143. Stereum rufo-nitens Speg. (n. sp.)

Diag. Mesopus: pileus tenuiter papyraceo-coriaceus infundibuliformis rufus sericeo-nitens, ambitu glaber laevis zonis concentricis obscurioribus notatus, centro longe grosseque crinito-setulosus; hymenium planum subpulverulentum pallescenti-roseolum; stipes centralis brevis crassus rufo-pallescens tuberculoso-adnatus.

Hab. Ad caudices putrescentes rarissime prope *Apiahy*, Aest. 1881 (sine n.).

Obs. Pileus solitarius obconico-cyathiformis (15''' alt. × 12''' lt.) tenuiter papyraceo-coriaceus cartilagineo-rigidulus fulvus v. rufus centro (parte infera interna infundibuli) setulis lamellosis longis (1-3''' lg. × 150-250''' lt.) dense intricatis rufescentibus vestitus, ambitu glaber laevis sericeo-nitens, zonis concentricis strictis atque densis plus minusve obscurioribus ornatus, margine acutus integer v. vix minutissime erosulo-crenatulus, inferne in stipite centrali subterete duro brevi crassiusculo (3-5''' lg. × 1,5-2''' crs.) pallescenti-rufescente farcto cuneato-productus; hymenium tenuissimum partem externam totam pilei vestiens, laeve, non v. vix pulverulentum carneum v. e pallescente dilute roseum. Species pulcherrima *St. cyathiformi* Fr. certe peraffinis sed satis riteque diversa.

144. Stereum squamula Speg. (n. sp.)

Diag. Pleuropus pusillum lignicolor: pilei tenues coriaceo-rigidi, flabellati v. spathulati integri v. lobato-fiss

glabri concentrice sulcati subradiatim fibrilloso-rugulosi, postice cuneato-stipitati ; hymenium concolor laeve.

Hab. Ad terram nudam v. schidias putrescentes prope *Apiahy*, 1881-88 (sub n. 1638-2885).

Obs. Solitarium v. hinc inde laxe gregarium ; pilei quandoque suborbiculari-flabellati integri atque sessiles (5-10''' alt. × 45''' dm.), quandoque elongato-spathulati lobato-fissi postice plus minusve longe cuneato-stipitati (5-15''' alt. × 10-15''' lt.), tenues papyraceo-coriacei rigiduli, superne convexuli glabri e pallescente lignicolores laeves v. concentrice 1-3-sulcati atque (praecipue in parte postica) radiatim fibrilloso-rugulosi; contextus albus compactus tenuis (0,3-0,5''' crs.); hymenium tenuissimum planum subceraceum primo album dein sordide lignicolor ; sporae non visae. Species saepius terrestris, raro frustulis ligneis terra obovolutis adhaerens.

145. Stereum fasciatum Schw. — Sacc., l. c. f. 560.

Hab. Ad palos putrescentes in hortis, *Apiahy*, ann. 1881 (sub n. 1450-1675).

Obs. Pilei tenuiter coriacei rigidi quandoque flabellato-applanati, quandoque umbonato-subconchati (25-50''' dm. trans. × 20-25''' dm. ant.-post.) sessiles v. substipitati, albidi v. pallescenti-cinerei, adpresse velutini, margine praecipue zonis latiusculis castaneis nitentibus concentricis notatus; contextus albus tenuis (0,5-0,8''' crs.) ; hymenium glabrum subcarneum laeve v. obsoletissime concentrice v. radiatim sulcatum ; sporae non visae.

146. Stereum ochroleucum Fr. — Sacc., l. c. f. 562.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1558).

Obs. Pilei coriaceo-rigiduli e pallescente canescentes hispiduli subsericei obsolete concentriceque zonati ; hymenium laeve glabrum lutescens.

147. STEREUM HIRSUTUM (W.) Fr. — Sacc., l. c. f. 563.
Hab. Ad ramulos emortuos in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1513).

148. STEREUM BICOLOR (Pers.) Fr. — Sacc., l. c. f. 565.
Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Aest. 1881 (sub n. 1060).

149. STEREUM COFFEARUM B. et C. — Sacc. l. c. f. 576.
Hab. Ad cortices adhuc virentes arborum in dumetis prope *Apiahy*, Maj. 1888 (sine n.).
Obs. Pilei coriacei rigidi saepius resupinati, margine stricte libero-reflexi sordide fusco-cinerei, ex hispidulo glabrati obsolete zonati; contextus umbrinus (0,2-0,5''' crs.) compactus; hymenium sordide fuscum pruinula cinereo-umbrina detersili adspersum; sporae ovoideae (6-7 × 2-2,5 μ) hyalinae.

150. STEREUM PUIGGARII Speg. (n. sp.)
Diag. Scutato-pezizoideum sessile coriaceum durum, ambitu subinvolutum undulatum, dorso puncto adfixum atque dense spongioso-lanosum sericeo-aterrimum; contextus tenuis albus; hymenium sordide fusco-cinerascens, primo cinereo-pruinulosum.
Hab. Ad caudices putrescentes in sylvis prope *Apiahy*, Jun. 1888 (sub n. 2378).
Obs. Pilei solitarii v. laxe gregarii coriacei rigidi duri orbiculares (15-20''' dm.) resupinato-scutati, dorso puncto tuberculoso adfixi atque strato tomentoso crasso dense constipato aterrimo molli subsericeo-nitente vestiti, ambitu reflexo-subinvoluti; contextus tenuis (0,5-1''' crs.) compactus rigidus ligneo-albus; hymenium planum primo cinereo-pulverulentum dein glabratum sordide e fusco umbrinum. Species pulcherrima generi *Coniophorae* DC.

nonnihil accedens, distinctissima; hymenium subcrustaceum facillime a contextu separabile.

151. Stereum frustulosum (Pers.) Fr. — Sacc., l. c. f. 572.

Hab. Ad caudices muscosos putrescentes in sylvis prope *Apiahy*, Jun. 1888 (sub n. 2906).

Obs. Species notis plurimis generi *Coniophorae* DC. vergens; sporae ovoideae (4-5 × 2,5-3 μ) hyalinae.

152. Hymenochaete damaecornis (Lnk.) Lév. — Sacc., l. c. f. 589.

Hab. Ad ramos dejectos putrescentes arborum in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2883).

Obs. I. Pilei flabellato-spathulati postice attenuato-stipitati saepius lateraliter confluenti-infundibuliformes, tenues membranaceo-coriacei rigiduli, superne fulvo-rufescentes subsericeo-nitentes glabri, obsoletissime stricte concentriceque obscurius zonati, radiatim fibrilloso-rugulosi, margine crenato-lobati; contextus helvolus; hymenium badium, zona sterili latiuscula pallidiore marginali cinctum, setulis rigidulis elongato-conoideis acutis (100-150 × 20 μ) ferrugineis stricte canaliculatis dense vestitum; stipites saepius breviusculi compressi obscure ferruginei, velutino-pruinulosi. Specimina brasiliensia cum cubensibus comparata vix setulis nonnihil gracilioribus differre videntur.

Obs. II. Specimina sub hoc nomine in *Fungis guaranaticis* pug. I, n. 72, nunc melius inspecta, speciem alienam novam sistunt, sic nuncupanda: Hymenochaete Balansae Speg. (n. sp.) — Pilei coriacei rigidi spathulati, superne fulvo-rufi pulverulento-velutini opaci azoni radiatim ruguloso-fibrillosi, margine longe denseque laciniato-fimbriati; contextus helvolus; hymenium ochraceum, zona marginali substerili plus minusve evoluta fuscescente cinctum, setulis rigidulis elongato-conoideis (50-100 ×

10–15 μ) obtuse acutatis latiuscule canaliculatis dense vestitum; stipes elongatus basie teres simplex sursum applanatus ramosus lignoso-durus, ochraceo-ferrugineus, pulverulento-velutinus.

153. Hymenochaete elegantissima Speg. — Sacc., l. c. f. 594.
Hab. Ad palos corticatos putrescentes in hortis, *Apiahy*, Aest. 1881 (sub n. 1574-76).
Obs. Species nobilissima ab *H. tenuissima* Brk. vix recedens, pileis conspicue majoribus hymenioque carneo-umbrino vix margine fulvo-ferrugineo; setulae conoideae (90-100 × 10 μ). Species *Hymenochaetis* omnes inter se peraffines ac difficillime extricandae!

154. Corticium arachnoideum Brk. — Sacc., l. c. f. 611.
Hab. Ad muscos adhuc vivos in truncis prope *Apiahy*, Oct. 1881 (sine n.).

155. Corticium laeve Pers. — Sacc., l. c. f. 611.
Hab. Ad truncos palosque vetustos putrescentes prope *Apiahy*, per ann. 1881-88 (sub n. 1651–2577.)
Obs. Variat margine adnato-effusus v. effuso-reflexus.

156. Hypochnus rubro-cinctus Ehrb. — Sacc., l. c. f. 663.
Hab. Ad corticem *Velloziae* speciei cujusdam in sylvis prope *Itabirá do Campo*, *Rio das Velhas*, Sept. 1887 (leg. Cl. I. Arechavaleta).

157. Cyphella Puiggarii Speg. (n. sp.)
Diag. Orbicularis cupulata sessilis, tenuiter cera‑eo-membranacea, candida extus intusque glabra.
Hab. Ad culmos dejectos putrescentes *Graminacearum* prope *Apiahy* (sine n.).
Obs. Pilei solitarii v. hinc inde laxe gregarii, cupulato-orbiculares v. auriculaeformes parvuli (2-8''' dm.) sessiles te-

nuiter membranaceo-subceracei, margine integri v. repanduli, candidi (in sicco subpallescentes), extus glaberrimi laevissimi, puncto impresso matrici adnati; hymenium ceraceum tenuissimum laeve glaberrimum ex albo subpallescens; sporae non visae. Species *C. culmicolae* Fr. affinis sed tenuior ac magis alba.

158. Cyphella albo-violascens (A. et S.) Karst. — Sacc., l. c. f. 669.
Hab. Ad ramulos dejectos putrescentes in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2719).

159. Cora glabrata Spreng. — Sacc., l. c. 686.
Hab. Ad truncos dejectos putrescentes in campis prope *Apiahy*, Jan. 1881 (sub n. 1506).
Obs. Species pulchella, primo obtutu pro *Sterei cartilaginei* Fr. forma dimidiato-flabellata facillime sumenda, mox tamen dignoscenda.

160. Rhipidonema sericeum Sw. — Sacc., l. c. f. 688.
Hab. Ad truncos muscosos in sylvis prope *Apiahy*, Aest. 1881 (sine n.).

161. Rhipidonema spongiosum B. et C. — Sacc., l. c. f. 689.
Hab. Ad caudices arborum inter muscos in sylvis prope *Apiahy*, Aut. 1881 (sine n.).
Obs. Haec species etiam in collectione guaranitica Cl. *Balansae*, sub n. 4097 ex *Guarapí*, adest.

CLAVARIEAE Cda.

162. Clavaria Puiggarii Speg. — Sacc., l. c. f. 697.
Hab. Ad terram in umbrosis prope *Apiahy*, Aut. 1881 (sine n.).

163. Clavaria abietina Pers.? — Sacc., l. c. f. 701.
Hab. Ad schidias ligneas terra obovolutas in sylvis prope *Apiahy*, Apr. 1888 (sine n.).
Obs. Specimina brasiliensia vix a typo recedunt statura minore, trunco ramisque crassioribus dense breviterque ramoso-fastigiatis ac vegetatione subepixyla! Sporae tamen desunt.

164. Clavaria pyxidata Pers. — Sacc., l. c. f. 698.
Hab. Ad truncos putrescentes mucidos in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2866).

165. Calocera platyceras Speg. (n. sp.)
Diag. Subsolitaria, succineo-fulva; stipites erecti subteretes glabri apice simplices v. bifidi, late tenuiterque attenuato-spathulati v. flabellati, pallidiores.
Hab. Ad ramos decorticatos putrescentes in sylvis prope *Apiahy*, Jun. 1888 (sine n.).
Obs. Stipites solitarii v. hinc inde laxe gregarii erecti recti (5-10''' alt. × 0,7-1''' crs.) sursum subcompressi subpellucidi e succineo pallescenti-fulvi glabri, deorsum subteretes opaci subfuscescentes saepeque minute cinereo-pulverulenti, base abrupte dilatatulo-adfixi, apice simplices v. bifidi, abrupte in pileo tenuiter tremelloideo-membranaceo pallescente pellucido spathulato v. suborbiculari-flabellato (3-4''' alt. × 2-5''' lt.), verticali, margine obtusiusculo integro v. repando-sublobato glaberrimo expansi; sporae non visae.

166. Calocera Puiggarii Speg. (n. sp.)
Diag. Laxe gregaria v. sparsa; stipites erecti glabri lineares simplices v. fusoideo-teretes tremelloidei subsuccinei apice acuti fusco-purpurascentes deorsum pallidiores, base albescentes, subiculo orbiculatim dilatato submucedineo albo adfixi.

Hab. In cortice v. ligno mucido putrescente in sylvis prope *Apiahy*, Jul. 1888 (sub n. 2903).

Obs. Stipites sparsi v. hinc inde laxe gregarii glaberrimi laevissimi erecti recti v. flexuosuli graciles (5-7''' lg. × 0,5–0,6''' crs.) simplices v. ad tertium inferum bifidi e terete fusoidei, apice obtuse acutati fusco-purpurei, medio e succineo fulvescentes v. pallescentes, deorsum attenuati albescentes base truncati, mycelio orbiculatim expanso, maculam candidam (1–2''' lt.) furfurellam subdetersilem efficiente radicati ; sporae non visae. Species pulchella habitu *C. foveolari* Lév. simillima, foveola basali tamen deficiente recedens, *C. albipedi* Mntgn. cognata etiam, colore purpurascente abhorrens ; an varietates unius speciei omnes tres citatae tantum ?

167. Pterula secundiramea (Lév.?) Speg. — Sacc., l. c. f. 716 (sub *Clavaria*).

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1881 (sub n. 1487).

Obs. Stipites quandoque solitarii quandoque e base communi coespitosi v. brevissime subfasciculati, filiformes erecti, base recti, sursum incurvuli (10-20''' lg. × 0,3-0,5''' crs.) deorsum fusci, caeterum pallescenti-rufescentes v. carnei (in sicco tantum ?) opaci glabri laeves rigiduli, laxe alterne v. subopposite ramulosi, ramulis (5-10''' lg.) patentibus, antice attenuato-acutatis, omnibus secundis, apice rectis v. incurvulis simplicibus v. rarius laxe sparseque ramululosis. Species pulchella, saepius coespitosa, dense comata intricato-ramulosa, ramulis secundis mox dignoscenda.

TREMELLINEAE Fr.

168. Hirneola auricula-judae (L.) Brk. — Sacc., l. c. f. 766.

Hab. Ad truncos adhuc vivos arbuscularum in dumetis prope *Apiahy*, Aut. 1881 (sub n. 1538).

169. Hirneola lancicula Mntgn. — Sacc., l. c. f. 770.
Hab. Ad corticem putrescentem mucidum in sylvis prope *Apiahy*, Apr. 1881 (sub n. 1538).
Obs. Cupulae sparsae (1–4''' lt.) tenuissime membranaceae, dorso plus minusve late adfixae, margine subinvolutae integrae acutae subpellucidae e fulvo succineae extus intusque glaberrimae, contextu prosenchymatico-septulato marginem versus subparenchymatico succineo. A typo vix colore magis pallido recedit.

170. Tremella lutescens Pers. — Sacc., l. c. f. 781.
Hab. Ad ramos dejectos putrescentes prope *Apiahy*, Jun. 1881 (sine n.).

171. Tremella mesenterica Retz. — Sacc., l. c. f. 783.
Hab. Ad ramos decorticatos putrescentes in hortis prope *Apiahy*, Apr. 1888 (sub n. 2387).

172. Tremella gummaeformis Speg. (n. sp.)
Diag. E rimis erumpens, late mucoso-diffluens gyroso-undulata pellucida rufo-ferruginea laevis glabra; sporae ellipsoideae v. ovato-subglobosae hyalinae.
Hab. Ad palos putrescentes in hortis prope *Apiahy*, Aut. 1881 (sub n. 1566–1652).
Obs. Species pulcherrima, e rimis corticis tuberculoso-erumpens (2–20''' lt.), undulato-gyrosa sublobata laevissima glaberrima, mox mucoso-diffluens, obscure rufo-ferruginea subnitens; basidia non visa; sporae ex ovato subglobosae (10-12 μ dm.) hyalinae laeves, dense minuteque granuloso-farctae. An prioris forma senescens tantum?

173. Hormomyces pezizoideus Speg. (n. sp.)

Diag. Sparsus v. laxe gregarius, rufescenti-succineus parvulus primo subglobosus dein umbilicato-cupulatus obtuseque rotundato-marginatus; sporae globosae hyalinae catenulatae.

Hab. Ad culmos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Conceptacula sparsa v. hinc inde plus minusve dense gregaria saepe subconfluentia in vivo tremelloidea mollia, in sicco dura subcornea, primo globulosa dein cupulato-collapsa (1–5''' dm.) margine obtusissime rotundata integra glaberrima ex opaco subpellucida fulva v. rufescenti-succinea; sporae globulosae (1,5–2 μ) hyalinae laeves in catenulas praelongas (40-100 μ lg.) ramulosas digestae.

GASTEROMYCETAE Willd.

PHALLOIDEAE Fr.

174. Clathrus australis Speg. — Phall. arg. n. 7.

Hab. Ad terram muscosam arenosam prope *Apiahy*, Apr. 1881 (sine n.).

Obs. Species *Cl. (Laternea) triscapo* Turp. affinis, sed ramis 4 bene distinctis atque sporis cylindraceo-ellipsoideis recedens.

175. Clathrus columnatus Bosch. — Fisch. in Sacc., Syll. fung. v. VII, prt. I, f. 18.

Hab. Ad terram sabulosam in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Sporae ellipsoideo-cylindraceae (4-6 × 1,5 μ) chlorinae.

176. Clathrus crispus Turp. — Fisch. in Sacc., l. c. f. 20.
Hab. Ad terram inter folia sternata in sylvaticis prope *Apiahy*, Apr. 1888 (sine n.).
Obs. Specimina valde obliterata ac vix determinanda; sporae ellipsoideo-cylindraceae (4–5 × 2–2,5 μ) chlorinulae.

177. Calathiscus Puiggarii Speg. — Fisch. in Sacc., l. c. f. 24.
Hab. Ad terram sabulosam inter folia dejecta putrescentia in sylvis prope *Apiahy*, Apr. 1881 (sine n.).
Obs. Mihi ex eodem loco Phalloidearum species duo nondum evolutae adsunt, sed non determinabiles etsi certe a prioribus distinctae.

NIDULARIACEAE Fr.

178. Cyathus Montagnei Tul.
Var. *brasiliensis* Speg. — DTon. in Sacc., l. c. f. 34.
Hab. Ad ramenta coacervata putrescentia *Graminacearum* in dumetis prope *Apiahy*, Aut. 1881 (sub n. 1542).

179. Cyathus Puiggarii Speg. (n. sp.)
Diag. Olla; peridium obconicum extus fusco-fulvum longe denseque strigoso-hirsutum, epiphragmate tenui albo, ore integerrimo, intus laevissimum plumbeo-nitens; sporangiola lenticulari-rhomboidea atro-plumbea laevia subnitentia; sporae ellipsoideae crasse tunicatae hyalinae.
Hab. In fimo vetusto putrescente in pratis prope *Apiahy*, Apr. 1888 (sub n. 2336).
Obs. Peridia hinc inde 4–20-aggregata subconstipata, mycelio vix evoluto fibrilloso per matricem latiuscule profundeque excurrente insidentia, tenuiter membranaceo-papyracea rigidula, primo obovata apice rotundatula ore

parvulo epiphragmate tenuissimo albo mox evanescente donato, dein calyciformia (5-6''' alt. × 4-5''' lt. or.), superne truncata ore late aperto integerrimo, extus ubique longiuscule dense patuleque hirsuto-strigosa, in vivo testaceo-rufescentia, in sicco subcinerascenti-testacea, intus plumbea laevissima glaberrima subnitentia; sporangiola 12-16 in quoque peridio, dense constipata e discoideo rhomboidea (2''' dm.) crassiuscule lenticularia (1,3-1,5''' crs.) e mutua pressione applanato-angulosa, obscure plumbea laevia subnitentia, non umbilicata, funiculo albo brevi crassiusculo donata, pulpa alba farcta; sporae dense constipatae ellipticae v. ovatae (30 × 20 μ) crassiuscule tunicatae, laeves hyalinae. Species pulchella *C. stercoreo* (Schw.) DTn. peraffinis et facile ejusdem varietatem tantum sistens.

LYCOPERDACEAE Ehrnb.

180. Bovista Cisneroi Speg. — DTn. in Sacc., l. c. f. 102.

Hab. Ad terram sabulosam in pratis prope *Apiahy*, Jul. 1888 (sine n.).

Obs. Specimina subimmatura; peridia sessilia, flaccida, subglobosa (20-30''' dm.) base interdum plus minusve plicata, tunica externa deficiente, interna tenuissima crocea v. aurantio-lutea, vix in parte supera subolivascentia atque minutissime adpresseque furfurella, ad apicem osculo parvulo irregulari dehiscentia, inferne radice tortuosula cylindracea longiuscula fusco-flavescente instructa; gleba gossypina compacta citrina; sporae adhuc immaturae. Species praedistincta odorem corii, *Bulgaro* vocati, pollens atque chartam colore aurantio tingens.

181. Bovista? Puiggarii Speg. (n. sp.)

Diag. Peridia gregaria globoso-obovata parvula laevia testaceo-rosea pruinulosa, inferne pallescentia plicatula; gleba cinerascenti-olivascens subcelluloso-squamulosa elastica peridio adnata; sporae globosae spinulosae ecaudatae chlorinae.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 1657).

Obs. Peridia dense hinc inde 3–20-aggregato-constipata, obovata v. subglobosa (10–15''' dm.) e mutua pressione saepe angulosa, superne rotundata laevia, inferne subcuneata plicatula subsessilia, tunica externa deficiente, interna membranacea rigidula, sursum fusco-testacea v. cinerascenti-testacea obsoleteque purpurascente, deorsum pallescenti-cinerascente, ubique tactu atque visu minutissime pruinuloso-velutina, mycelio crassiuscule denseque fibrilloso-strigoso in matricem penetrante candido donata; basis sterilis nulla; gleba e base peridii radians compactiuscula cinerascens v. cinerascenti-olivascens dense squamuloso-spongiosula (an immatura?) pulvere sporifero parco repleta; sporae globosae (4–5 μ dm.), minute denseque spinulosae ecaudatae, chlorinae. Specimina nonnulla in base a larva cujusdam comedita excavataque; an huc *Coilomyces* B. et C.?

182. Lycoperdon brasiliense Speg. (n. sp.)

Diag. Peridia turbinata sordide tabacino-subpurpurascentia superne obtuse rotundata dense minuteque puberula laevia glabra sessilia, flaccidissima; gleba lutescenti- v. fulvescenti-tabacina gossypina, cum base sterili fusco-subcarnea grosse cellulosa continua; sporae globosae ecaudatae flavae.

Hab. Ad terram sabulosam in pratis prope *Apiahy*, Jul. 1888 (sine n.).

Obs. Peridia saepius solitaria obovato-turbinata (25–30''' alt. × 30–50''' dm.) sursum obtusissime rotundata, deorsum

cuneata, basi abrupte radicato-rotundata, colore *cupri nitidi*, seu e fulvo v. tabacino leniter aurantio-purpurascentia, superne minutissime pruinuloso-furfuracea, pruinula tabacina, inferne glabrescentia non v. vix subnitentia per aetatem irregulariter lacero-dehiscentia; basis sterilis dimidium v. tertium inferum peridii occupans e cellulis majusculis pallide fulvo-roseis, fibrillis tenuissimis e cinerascente tabacinis gossypinis repletis efformata, cum gleba continua; gleba mollissima elastica compactiuscula dense gossypina, ubique peridio adnata pulchre intenseque fulvo-tabacina, pulvere sporigero subcroceo parco farcta; sporae globosae (4 μ) ecaudatae laeves (an minutissime laxissimeque rugulosae?), grosse 1-guttulatae fulvo-flavidae.

183. Lycoperdon pseudopyriforme Speg. (n. sp.)

Diag. Peridium clavato-pyriforme superne rotundatum, irregulariter dehiscens, cinereum pruinulosum v. glabratum, base sterili magna olivascente grosse cellulosa a gleba plane discreta donatum; capillitium molliusculum plumbeum; sporae globosae papillosae chlorinae.

Hab. Ad terram humosam inter *Gramina* in pratis prope *Apiahy*, Aut. 1888 (sub n. 1656).

Obs. Peridia clavato-pyriformia (30''' alt.) in parte supera subglobosa (14–16''' dm.), tunica externa orbata, interna subcrassiuscula membranacea flaccidula, areolis minutis (0,5''' dm.) densis rotundis ex argenteo cinereis subnitentibus granulis fuscis immixtis vestita, in parte infera turbinato-cuneata (10-15''' alt. × 5–10''' dm.) pallide sordideque albescenti-pallescentia v. subcinerascentia, minute irregularíterque pruinuloso-granulosa; basis sterilis grosse spongioso-cellulosa compactiuscula, a gleba plane discreta fere septo membranaceo separata; gleba cinerascenti-plumbea, gossypinula pulvere sporifero concolore parcissimo inspersa, a base sterili atque tunica peridii

discreta v. facillime separabilis; sporae globosae (4 μ dm.), laxe minutissimeque papillulosae ecaudatae v. vix papillula magis protuberante praeditae e cinereo chlorinae. Species pulchella habitu externo cum *L. pyriformi* Schaeff. perfecte conveniens, sed gleba a base sterili discreta *L. hyemali* Bull. accedens.

184. Lycoperdon tropicale Speg. (n. sp.)

Diag. Peridium obovato-turbinatum majusculum fulvo-testaceum, glabrum irregulariter dehiscens; gleba grumoso-gossypina fulvo-cervina cum base sterili gossypino-constipata flavo-virescente continua; sporae globosae subecaudatae verruculosae chlorinae.

Hab. Ad terram humosam inter muscos in sylvis prope *Apiahy,* Apr. 1888 (sine n.).

Obs. Peridia solitaria e globoso v. ovoideo turbinata (60-70''' alt. × 30-40''' dm.) cortice exteriore plane orbata, superne rotundata laevia, inferne cuneata ac plicatula, cortice interno tenuissimo membranaceo flaccido rimuloso, gleba adnato ac cum illa mox evanescente, testaceo v. fulvo-testaceo donata; gleba gossypino-grumosa compactiuscula, cortice concolor cum base sterili continua; basis sterilis pulchre videque e flavo virescens v. olivascens, cortice glebaque adnata, gossypina compactiuscula (non spongioso-cellulosa) elastica, dimidiam peridii inferam partem occupans; sporae globosae (4 μ) minute laxissimeque papillulosae, cauda brevissima donatae pallide olivascentes. Species pulchella colore basis sterilis praecipue mox dignoscenda.

185. Arachnion album Schw. — DTn. in Sacc., l. c. f. 151.

Hab. Ad terram inter *Gramina* vulgata in pratis prope *Apiahy*, Apr. 1888 (sub n. 2877).

Obs. Sporae e globoso ovoideae (4-5 × 3-4 μ) grosse 1-guttu-

latae, saepe cauda eorum diametrum aequante recta donatae.

MYXOMYCETEAE Wallr.

186. Badhamia melanospora Speg. — Berl. in Sacc., l. c. f. 335.

Hab. Ad corticem putrescentem palorum in hortis, *Apiahy*, Mart. 1888 (sub n. 2868).

Obs. Tunica anhista hyalina calcarea extus laevis intus e capillitio calcareo dense gossypinula; sporae e fuligineo atrae opacae globosae (15-16 μ dm.) laeves, sed sub lente validissima in senectute saepius minutissime densissimeque reticulato-granulosae.

187. Badhamia ? pulcherrima Speg. (n. sp.)

Diag. Peridia dense aggregata cylindraceo-ellipsoidea albo-cinerea, hypothallo arachnoideo insidentia, tunica duplice vestita; tubuli simplices brevissimi hyalini calcarei; sporae globosae laeves atro-fuligineae.

Hab. Ad corticem putrescentem arborum in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2754).

Obs. Peridia hypothallo tenuissimo albo arachnoideo-ramuloso insidentia, cylindracea, subobovata v. cylindraceo-ellipsoidea (1-1,2''' alt. × 0,5-0,6''' dm.) utrinque rotundata stipitibus plus minusve evolutis tenuissimis albis flaccidis saepe fasciculato-connatis suffulta, dense gregaria, acervulos orbiculari-expansos (10-100''' dm.) efficientia, primo candidissima laevia, dein tunica externa frustulatim secedente, interna denudata tenuissima cinerea gleba arcte adnata tantum vestita; gleba compactiuscula aterrima irregulariter evanescens; capillitium omnino calcareum e tubulis brevissimis crassis difformibus reticulato-connexis hyalinis, nodulis triangulari-applanatis, efformatum; columella nulla; sporae globosae (10-15 μ dm.)

laeves, opace atro-fuligineae obsolete subviolascentes; granula calcarea alba numerosa minuta (1–2,5 μ dm.). Species pulcherrima peridiorum fabrica distinctissima et facile a genere *Badhamia* separanda.

188. Chondrioderma Puiggarii Speg. (n. sp.)

Diag. Leangium?; peridia e globoso ellipsoidea sessilia gregaria, cortice rufo-fulvo frustulatim evanescente tecta; gleba fusco-fuliginea; capillitium parcum hyalinum, columella destitum; sporae asperulae fusco-fumosae.

Hab. Ad folia viva *Leucobryi longifolii* in sylvis prope *Apiahy*, Oct. 1888 (sub n. 2917).

Obs. Peridia sessilia hinc inde plus minusve densiuscule gregaria non confluentia, irregulariter e globoso ellipsoidea (400–600 μ lg. × 250–400 μ alt. et lt.) pulchre rufo-fulva v. per aetatem fusco-lateritia opaca glabra laevia cortice unico fragili, sub lente anhisto granuloso-reticulato flavido, mox frustulatim evanescente tecta, glebaque compactiuscula e ferrugineo fusca repleta; columella nulla; flocci hyalini parci subdichotomico-furcati, nodulis late triangulari-applanatis; sporae globosae (8–10 μ dm.) minutissime denseque granuloso-asperulae e fusco fuligineae perdilute obsoleteque vinosae.

189. Didymium squamulosum (A. et S.) Fr.

Var. *leucopus* Fr. — Berl. in Sacc., l. c. f. 377.

Hab. Ad folia viva emortua *Graminacearum* in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2718).

Obs. Sporae globosae (7-8 μ dm.) laeves.

190. Didymium effusum (Lk.) Fr. — Berl. in Sacc., l. c. f. 378.

Hab. Ad folia emortua putrescentia *Graminacearum* in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2563).

191. Didymium farinaceum Schrad. — Berl. in Sacc., l. c. f. 381.

Hab. Ad folia viva *Leucobryi longifolii* in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Cristalla externa superficialia stellata hyalina; sporae globosae (8-10 μ dm.) laeves fusco-violascentes.

192. Diachea leucopoda (Bull.) Rost. — Berl. in Sacc., l. c. f. 387.

Hab. Ad folia *Filicum* adhuc viva in sylvis prope *Apiahy*, per Aut. 1881-88 (sub n. 1581-2783).

Obs. Sporae globosae (8-10 μ dm.) laeves fusco-vinosae.

193. Stemonitis fusca Roth. — Berl. in Sacc., l. c. f. 397.

Hab. Ad cortices radices atque ramenta herbacea putrescentia in sylvis prope *Apiahy*, per Aut. 1881-88 (sub n. 1452-2603).

Obs. Sporae globosae (7-8 μ dm.) laeves.

194. Stemonitis fluminensis Speg. — Berl. in Sacc., l. c. f. 398.

Hab. Ad corticem putrescentem in sylvis uliginosis prope *Apiahy*, Jul. 1881 (sine n.).

195. Rostafinskia australis Speg. — Berl. in Sacc., l. c. f. 403.

Hab. Ad cortices dejectos putrescentes arborum in sylvis uliginosis prope *Apiahy*, Aut. 1881 (sub n. 1549).

Obs. Aetalia primo mucosa flavida, dein carnosula virescenti-flavida, postremo gossypinulo-compactiuscula pulchre violacea; sporae e globoso ellipsoideae v. ovoideae (6-9 × 4-6 μ) laeves fusco-subviolascentes.

196. Cornuvia minutula Speg. (n. sp.)

Diag. Peridia ovoidea stipitata purpureo-fusca laevia opaca; capillitium reticulatum, tubulis spiraliter 4-teniolatis, flavescens; sporae globosae laeves flavescentes.

Hab. Ad terram pinguem muscosam (an in radicibus putrescentibus ?) in pratis prope *Apiahy,* Aut. 1881 (sub n. 1663).

Obs. Peridia subglobosa v. pyriformia (0,5–0,6''' dm.) fusco-purpurascentia laevia glabra cortice tenacello persistente, per aetatem frustulatim evanescente, tecta, deorsum in stipite longiusculo ac tenui (2–3''' lg. × 120–150 μ crs.) e coccineo roseo recto laevi producta; capillitium dense constipatum fusco-flavescens, e tubulis dense reticulato-connexis teretibus (5–6 μ crs.), taeniolis 4 spiraliter evolutis donatis laevissimis non papillosis flavidis compositum; sporae globosae (6–7 μ dm.) episporio tenui laevi (an minutissime granuloso?) vestitae, e hyalino flavescentes. Species pusilla humigena, habitu *Stilbi* cujusdam fere donata.

197. Arcyria decipiens Brk. — Berl. in Sacc., l. c. f. 432. *Cornuvia leocarpoides* Speg. — Fung. arg. pug. IV, n. 244.

Hab. Ad ligna decorticata putrescentia in hortis prope *Apiahy*, Aut. 1881 (sub n. 1653).

198. Arcyria cinerea (Bull.) Schm. — Berl. in Sacc., l. c. f. 427.

Hab. Ad muscos adhuc vivos ín sylvis prope *Apiahy*, Apr. 1888 (sub n. 2880).

Obs. Calyculus minute costatus; tubuli capillitii fere omnes aequales (3–4 μ crs.) spinulosi, cinereo-olivascentes; sporae globosae (5–6 μ dm.) laeves subhyalinae.

199. Hemiarcyria melanopeziza Speg. — Berl. in Sacc., l. c. f. 449.

Hab. Ad corticem putrescentem in sylvis uliginosis prope *Apiahy*, Jun. 1881 (sine n.).

PHYCOMYCETEAE DBY.

200. CYSTOPUS BRASILIENSIS Speg. (n. sp.)

Diag. Acervuli hypophylli minuti albi; conidia catenulata omnia aequalia lenticularia hyalina.

Hab. Ad folia viva *Eupatorii* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2483).

Obs. Maculae amphigenae minutae (1-2''' dm.) saepe confluentes subindeterminatae, superne obscure fusco-purpurascentes, inferne sordide subferrugineae; acervuli hypophylli irregulariter suborbiculares minuti (0,5-1''' dm.) diu epidermide velati dein erumpentes subpulverulenti albi, in maculis solitarii v. 2-3-gregarii saepeque confluentes; conidia catenulata omnia forma magnitudineque aequalia e fronte discoidea (20 μ dm.) e latere lenticularia (10-14 μ crs.) margineque crasse truncata, episporio hyalino crasso laevi vestitae; oosporae non visae. Species *C. trogopogoni* (Pers.) Schr. peraffinis, conidiis tamen lenticularibus atque omnibus aequalibus recedens.

USTILAGINEAE TUL.

201. CINTRACTIA PERIBEBUYENSIS Speg. — Fung. guar. pug. II, n. 26.

Hab. Ad basin pedunculorum inflorescentiae *Cyperi* cujusdam in uliginosis prope *Apiahy*, Aug. 1888 (sub n. 2875).

UREDINEAE Brogn.

202. Uromyces Holmbergii Speg. (n. sp.)

Diag. Hemiuromyces; sori amphigeni minuti tecti fuliginei; teleutosporae obovatae laeves stipite brevi fulvescente suffultae.

Hab. Ad folia viva *Mitracarpi* speciei cujusdam in herbosis prope *Apiahy*, Apr. 1888 (sub n. 2607).

Obs. Maculae nullae; sori teleutosporiferi amphigeni sparsi minuti (0,5-1''' dm.), uredosporiferis immixti, vix prominuli, epidermide integra diu velati, fusco-cinnamomei compactiusculi; teleutosporae dense constipatae, obovatae v. ellipsoideo-obovatae (35–40 × 26-30 μ), superne subtruncato-rotundatae, rarius late modiceque umbonatae, crasse tunicatae, continuae, non v. 1-guttulatae laeves subopace fuligineo-cinnamomeae, stipite recto breviusculo crassiusculo persistente pallide fulvescente (30-40 × 6-9 μ) suffultae, aparaphysatae. Ab *U. spermacoces* (Schw.) Thm. pedicello conspicue breviore recedere videtur.

203. Puccinia malvacearum Bert. — DTn. in Sacc., Syll. fung. vol. VII, p. II, f. 686.

Hab. Ad folia viva *Malvae* speciei cujusdam in hortis *Apiahy*, Aest. 1881 (sub n. 1547).

Obs. Teleutosporae pallide fulvae (50 × 20 μ) stipite longiusculo (60–70 × 5–7 μ) hyalino fultae.

204. Diorchidium Puiggarii Speg. (n. sp.)

Diag. Teleutosporae turbinatae fulvescentes loculis juxtapositis obovatis apice late rotundatis atque verrucosis, stipite longiusculo hyalino fultae.

Hab. Ad folia viva *Cassiae* speciei cujusdam in dumetis prope *Apiahy*, Aest. 1881 (sub n. 2713).

Obs. Maculae nullae v. pallescentes amphigenae indeterminatae; acervuli teleutosporici, uredosporicis commixti, in maculis v. hinc inde densiuscule gregarii hypo-(rarius epi-) phylli, irregulariter dispositi v. subconcentrici minutissimi (150-350 μ dm.) erumpenti-superficiales subcompactiusculi rufo-fulvi; teleutosporae bicellulares (20–30 × 20–28 μ), cellulis obovatis, antice rotundatis ibique tantum dense minuteque papillosis atque plus minusve crassiuscule tunicatis, deorsum laevibus, pulchre e subfuligineo rufo-fulvae, stipite longiusculo tenui (50–60 × 5 μ), hyalino suffultae. In acervulorum margine paraphyses minutae (25–30 × 7–8 μ) saepe adsunt.

205. Phragmidium subcorticium (Schrnk) Wnt. — DTn. in Sacc., l. c. f. 746.

Hab. Ad folia viva *Rosae* cujusdam cultae in hortis, *Apiahy*, Oct. 1888 (sub n. 2933).

Obs. Teleutosporae cylindraceae non v. lenissime superne crassiores utrinque obtuse rotundatae (60–80 × 30 μ), primo rufo-fuligineae pellucidae 6–7-septatae, ad septa non v. vix subconstristae, dein atrae opacae, apice mucrone conoideo obtusiuscule acutato (6-10 μ lg.) auctae, granulis hyalinis laxe adspersae, base stipite saepius recto longiusculo (100–120 μ), dimidia parte supera cylindracea (7–9 μ crass.) farcta, dimidia parte infera abrupte incrassata (25–30 μ) medioque saepius leniter coarctata saepeque canaliculo protoplamate aureo donata efformato suffultae. Uredosporae obovatae (20–24 × 18–20 μ) dense minute papillosae, episporio crasso hyalino, protoplamate granuloso aureo.

206. Ravenelia fimbriata Speg. (n. sp.)

Diag. Hemiravenelia; acervuli hypophylli punctiformes rufi;

teleutosporae hemisphaerico-depressae, 5–6-cellulas in omni directione praebentes, fulvae, margine inferiore hyalino-appendiculatae, stipite hyalino brevissimo fultae.

Hab. Ad folia viva *Sesbaniae* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2765).

Obs. Maculae nullae v. epiphyllae vix manifestae (3–5''' dm.) indeterminatae pallescentes; acervuli teleutosporici uredosporicis commixti in maculis densiuscule gregarii inordinati hemisphaerico-orbiculares minuti (200-400 μ), erumpenti-subsuperficiales sordide rufo-fulvi; teleutosporae superne hemisphaericae (100-110 μ dm. × 60-70 μ crs.) inferne applanato-concaviusculae, margine obtusae, 30-60-cellulares, cellulis exagonis (10-12 μ dm.) dissepimentis subcrassiusculis, pulchre fulvescentes, in parte infera ad marginem appendicibus 8–16 subcylindricis obtusis hyalinis (10-25 × 3-4 μ) ornatae, stipite brevissimo crassoque (25–30 × 15–20 μ) hyalino fultae.

207. Uredo fimbriata Speg. (n. sp.)

Diag. Acervuli epíphylli erumpentes minuti rufi; uredosporae subellipsoideae laeves hyalino-melleae.

Hab. Ad folia viva *Sesbaniae* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2765).

Obs. Maculae nullae v. epiphyllae orbiculares (2–5''' dm.) indeterminatae vix pallescentes; acervuli uredosporici cum teleutosporicis commixti minuti (120–180 μ dm.) vix papillato-prominuli fulvi erumpentes; uredosporae e globoso v. ovoideo ellipsoideae (12–15 × 10–12 μ) non v. 1-guttulatae, episporio tenui laevi v. minute subruguloso-papilluloso donatae, e hyalino pallidissime melleae. Status uredosporicus *Raveneliae fimbriatae* Sp.

208. Uredo Holmbergii Speg. — DTn. in Sacc., l. c. f. 850.

Hab. Ad folia viva *Mitracarpi* speciei cujusdam in herbosis prope *Apiahy*, Apr. 1888 (sub n. 2607).

Obs. Uredosporae e globoso obovatae (28–30 × 20–24 μ) verrucoso-spinulosae fuligineae; status uredosporicus *Uromycetis Holmbergii* Speg.

209. Uredo microtheles Speg. (n. sp.)

Diag. Acervuli hypophylli minuti ferruginei; uredosporae globosae, verruculosae fulvae.

Hab. Ad folia viva *Desmodii* speciei cujusdam in herbosis prope *Apiahy*, Aest. 1888 (sub n. 2720).

Obs. Maculae amphigenae irregulares indeterminatae pallescentes; acervuli hypo-(rarius epi-) phylli, in maculis densiuscule gregarii pusilli (150–250 μ dm.) vix prominuli erumpentes subpulverulenti fulvi; uredosporae globosae (17–18 μ dm.), episporio crassiusculo minute denseque spinuloso-verruculoso donatae, non v. 1-guttulatae, nubiloso-farctae fulvescentes.

210. Uredo Puiggarii Speg. (n. sp.)

Diag. Acervuli minuti fulvo-ferruginei; uredosporae subglobosae verruculosae fulvae.

Hab. Ad folia viva *Cassiae* speciei cujusdam in dumetis prope *Apiahy*, Aest. 1888 (sub n. 2713).

Obs. Maculae amphigenae pallescentes indeterminatae; acervuli hypophylli cum teleutosporicis commixti, pusilli (120–150 μ dm.) vix prominuli, erumpentes pallide fulvo-ferruginei; uredosporae globosae v. subellipsoideae (20–22 × 18–20 μ), episporio tenuiusculo dense minuteque verruculoso-papilloso donatae, non v. 1-guttulatae, nubiloso-farctae, pallide fulvae; status uredosporicus *Diorchidii Puiggarii* Speg.

211. Uredo appendiculata Pers. — DTn. in Sacc., l. c. f. 535.

Hab. Ad folia viva *Phaseoli* speciei cujusdam in hortis prope *Apiahy*, Aest. 1888 (sub n. 2461).

Obs. Uredosporae obovatae v. subglobosae (20-24 × 18-22 μ),

episporio tenui dense minuteque verruculoso-spinuloso vestitae, pallide fulvae.

212. Uredo? subhyalina Speg. (n. sp.)

Diag. Acervuli petiolicoli v. neurophili pallide aurantiaci minuti; uredosporae subglobosae episporio laevi hyalino protoplasmate nubiloso flavescente donatae.

Hab. Ad folia viva *Desmodii* speciei cujusdam in pratis *Apiahy*, Aut. 1881 (sine n.).

Obs. Maculae nullae; acervuli in petiolis dense gregarii v. in nervis ad hypophyllum densiuscule seriati, matrice non v. vix incrassatula innati, difformes saepe confluentes (200-250 μ dm.), parce prominuli, erumpentes, epidermide lacerata subdealbata diu cincti, pallide aurantiaci, *aecidium* pusillum simulantes; uredoporae globosae v. ellipsoideae, e mutua pressione obtuse angulosae (18-24 × 18-20 μ), episporio hyalino tenui laevi vestitae, protoplasmate flavescente nubiloso farctae. An *Coleosporium*?

PYRENOMYCETEAE (Fr.) DNtrs.

PERISPORIACEAE Fr.

213. Eurotium? pseudonectria Speg. (n. sp.)

Diag. Perithecia superficialia globosa minuta ostiolato-papillulata, pallide flava, floccis hyalinis radiantibus cincta; asci globosi mox diffluentes; sporidia globosa verruculosa hyalina.

Hab. Ad folia viva coriacea plantae ignotae cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2381).

Obs. Perithecia hinc inde laxe aggregata pusilla (80-120 μ dm.) e globoso ovoidea superne minute papillato-ostio-

lata, pallide e fulvo flavida glabra laevia, base hyphis tenerrimis paucis radiantibus (100–150 × 3–4 μ) continuis simplicibus cincta, aulista?; asci globosi (15–18 μ dm.) mox diffluentes, octospori; sporidia globosa v. e mutua pressione obsolete angulosa, laxe minuteque verruculosa hyalina, episporio per aetatem irregulariter dehiscente ac endosporam sphaericam laevem liberante. Species pulchella natura et facie *Nectriaceis* adscribenda! An huc *Pisomyxa rhacodiodes* Cda, quae tamen floccis radiantibus atris (an perisporiaceae cujusdam hospitantis?) sporidiisque fuscis (vetustis?) recedit?

214. Dimerosporium guarapiense Speg. — Fung. guar. pug. II, n. 44.

Hab. In *Perisporiacea* quadam ad folia viva *Myrtaceae* ignotae, prope *Apiahy*, Aest. 1888 (sub n. 1699).

215. Dimerosporium solanicolum (B. et C.) Speg. — Fung. guar. pug. II, n. 45.

Hab. In *Perisporiacea* quadam ad folia viva *Solani boerhaviaefolii*, Aut. 1888 (sub. n. 2861).

Obs. Perithecia astoma globosa (80–100 μ dm).

216. Dimerosporium asterinarum Speg. (n. sp.)

Diag. Perithecia astoma globosa, pilis paucis circinatis apice integris acutis pallidioribusque inspersa; asci obclavulati parce paraphysati; sporidia subcylindracea pallide olivacea.

Hab. Ad folia viva plantae ignotae in *Asterinis* parasitans, prope *Apiahy*, Aut. 1881 (sub n. 1625-1639).

Obs. Perithecia epiphylla hinc inde plus minusve dense gregaria, hypothallo fibrosulo subiculum *Asterinarum* incrustante insidentia, atra globosa (80-100 μ dm.), setulis olivaceis paucis (8–20) divaricatis (30-50 × 4-5 μ), eximie 1–v. 2-circinatis, sursum attenuatis apice integris acu–

tiusculis inspersa, tenui membranacea, contextu parenchymatico olivaceo; asci obclavulati (50-60 × 14-18 μ), antice truncato-rotundati subincrassato-tunicati, postice brevissime crasseque stipitati, paraphysibus paucis filiformibus non v. septulatis ac subramulosis obvallati octospori; sporidia 2-v. 3-sticha, cylindracea, recta v. vix inaequilateralia (18-20 × 4-5 μ) utrinque obtusiuscula, medio 1-septato-constrictula, primo hyalina 4-guttulata dein pallide olivacea. Stylosporae quoque fusoideae (20-22 × 2-2,5 μ) v. obclavulatae, chlorinae continuae saepe adsunt. An huc *Asterina Wrightii* B. et C.?

217. Dimerosporium Puiggarii Speg. (n. sp.)

Diag. Pulvinuli non parasitici parvi atri sparsi; perithecia aggregata globosa astoma hyphis radiantibus fuligineis cincta; asci obclavati aparaphysati; sporidia subclavulata primo hyalina dein chlorinula.

Hab. Ad folia viva *Senecionis* cujusdam in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2586).

Obs. Maculae amphigenae pallescentes suborbiculares (3-5''' dm.) indeterminatae, centro saepe fuscescentes; perithecia epiphylla in maculis irregulariter denseque aggregata v. subcircinata, globosa (80-90 μ dm.) atra, in sicco collabescentia glabra, base hyphis radiantibus atris opacis flexuosis cincta, astoma, membranacea, contextu parenchymatico densiusculo fuligineo; asci obclavulati (30 × 7 μ) antice subtruncato-rotundati non v. vix incrassati, postice breviter pedicellati aparaphysati octospori; sporidia 2-3-sticha, elliptica v. subfusiformia, non v. vix subclavulata utrinque acutiuscula (9-10 × 3-3,5 μ) medio 1-septata parceque constricta, primo hyalina, loculis 2-blastibus, dein chlorinula (loculis 1-septatis?). Species sporis forte postremo 3-septatis *Asteridio* accedens.

218. Dimerosporium solare Speg. (n. sp.)

Diag. Pulvinuli non parasitici minutissimi atri sparsi; perithecia centro pulvinulorum constipata globosa hyphis radiantibus densis cincta; asci ovati aparaphysati; sporidia clavulata hyalina v. fumosa.

Hab. Ad folia viva *Trichiliae* v. *Xanthoxyli* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2470).

Obs. Maculae nullae; pulvinuli epiphylli minuti (0,5-1‴ dm.) sparsi; perithecia in pulvinulorum centro 3–12–constipata, globosa (90-120 μ) astoma glabra atra laevia, membranacea, contextu parenchymatico olivaceo-fuligineo donata, subiculo parco radiante ex hyphis tenuibus longiusculis gracilibus (60-150 × 3-5 μ) septulatis pallide olivaceis efformato insidentia; asci ovati v. subsphaerici (35–40 × 25-30 μ) antice parce incrassato-tunicati, postice breviter crasseque pedicellati aparaphysati octospori; sporidia conglobata clavulata (16–18 × 5–6 μ), superne obtusa inferne acuta, medio 1-septata, parce constricta, prima hyalina dein fumosa (an postremo olivacea?).

219. Dimerosporium pulveraceum Speg. — Fung. arg. pug. IV, n. 118 (sub *Meliola)*.

Hab. Ad folia coriacea viva plantae ignotae in *Perisporiacea* quadam parasitans, *Apiahy*, Maj. 1881 (sub n. 1491).

Obs. Perithecia globulosa (50–80 μ dm.) astoma atra glabra membranacea, contextu parenchymatico olivaceo, hinc inde aggregata v. subsparsa, subiculo tenui fibrosulo mucedineo mycelium *Meliolarum* incrustante insidentia; asci obclavulati (30 × 12 μ) apice subtruncati crasseque tunicati, postice brevissime crasseque stipitati, aparaphysati octospori; sporidia 3-sticha v. subconglobata, subcylindracea utrinque acutiuscule rotundata (17–18 × 4–5 μ) medio 1-septata, non v. vix constricta, primo hyalina 1–guttulata, dein eguttulata chlorinula. Subiculum in l. c. descriptum ad *Meliolam* hospitantem pertinet.

220. Dimerosporium microsporum Speg. (n. sp.)

Diag. Parasitans; perithecia globosa astoma glabra; asci subcylindracei paraphysati; sporidia obovata pallide olivacea.

Hab. Ad folia plantae ignotae in *Meliola* quadam parasiticum prope *Apiahy*, Hiem. 1881 (sub n. 1612).

Obs. Hypothallus fibroso-mucedineus tenuissimus hyphas subiculi incrustans olivascens; perithecia sparsa v. hinc inde gregaria globosa minuta (80-100 μ) astoma atra, laevia, membranacea, contextu parenchymatico olivaceo parum distincto; asci cylindraceo-obclavati (28–30 × 7–8 μ) sursum subtruncato-rotundati, tunica modice incrassata, deorsum brevissime crasseque stipitati octospori, paraphysibus densis fluxilibus obvallati; sporidia 2-3-sticha obovata v. elliptico-obovata (7–9 × 3,5 μ) superne obtuse inferne acute rotundata, medio 1-septata non v. vix constricta, loculis subaequilongis, pallide olivacea.

221. Dimerosporium meliolicolum Speg. (n. sp.)

Diag. Parasitans; hypothallus mucedineus; perithecia globosa astoma glabra; asci obclavulati paraphysati; sporidia obovata pallide olivacea.

Hab. In *Meliola* quadam ad folia plantae indeterminatae prope *Apiahy*, Aut. 1881 (sine n.).

Obs. Hypothallus fibroso-mucedineus vix perspicuus tenuiter hyphas subiculi incrustans; perithecia hinc inde glomerulata globosa minuta (80-100 μ) astoma laevia atra membranacea, contextu parenchymatico olivaceo parum distincto; asci obclavati (30-35 × 8 μ) antice obtuse rotundati crassiusculeque tunicati, postice brevissime crasseque pedicellati, octospori, paraphysibus paucis filiformibus simplicibus v. ramulosis immixti; sporidia obovata, (10-12 × 4–4,5 μ) medio 1-septato-constrictula, loculis subaequilongis, infero graciliore, primo diu hyalina 4-blasta, dein eguttulata, pallide olivacea.

222. Dimerosporium? microstomum Speg. (n. sp.)

Diag. Non parasitans; hypothallus tenuissimus vix perspicuus; perithecia globosa densiuscule gregaria ostiolata glabra; asci cylindracei paraphysati; sporidia obovata pallide olivacea.

Hab. Ad folia languida *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sub n. 1442–1507).

Obs. Hypothallus epiphyllus tenuissimus primo fibrillosus mox mucedineo-submembranaceus plus minusve late effusus (2-5''' lt.) olivascens, vix perspicuus epidermide arctiuscule adnatus; perithecia in hypothalli centro saepius densiuscule gregaria globosa v. subovoidea minuta (70-20 μ) atra glabra, laevia utrinque v. superne tantum umbonata, apice ostiolo latiusculo (25 μ dm.) impresso perforata; asci cylindracei (35–50 × 8–10 μ) sursum obtuse rotundati crassiusculeque tunicati, deorsum minute pedicellati octospori, non v. parce paraphysati; sporidia oblique v. subrecte disticha, obovata v. subclavulata (9-11 × 3-4 μ), superne obtuse inferne acute rotundata, medio 1–septata, parce constrictula, diu hyalina dein pallide olivacea.

223. Dimerosporium? lateritium Speg. (n. sp.)

Diag. Pheritecia in subiculo atro velutino constipata, globosa rubro-lateritia glabra astoma; asci pyriformes tunica fuscescente instructi paraphysati: sporidia didyma fuliginea.

Hab. Ad folia viva *Velloziae* in sylvis prope *Itabirâ do Campo* secus *Rio das Velhas*, Sept. 1887 (leg. Cl. I. Arechavaleta).

Obs. Subiculum (an proprium?) hypophyllum maculas atras velutinas irregulariter orbiculares (3-8''' dm.) efficiens, arctiuscule matrici adnatum pelliculoso-membranaceum, ex hyphis subopacis fuligineis (6 μ crs.) dense intricato-ramosis hyphopodiis destitutis efformatum, setulis erectis (150-250 × 6-7 μ) subopacis rufescenti-atris septulatis apice pellucidis integris vestitum; perithecia inter

setulas subiculi nidulantia fere abscondita, hinc inde sparsa v. gregaria, globulosa minuta (100–120 μ dm.) astoma e rubro lateritia glabra laevia, crassiuscule membranacea, contextu parenchymatico rufo-fulvo parum perspicuo donata; asci obovati v. pyriformes (80-90 × 50-60 μ) breviter crasseque stipitati, tunica ubique, sed apice praecipue, crassiuscula primo hyalina dein saepius rufescente vestiti, paraphysibus diffluentibus e chlorino fuscescentibus obvallati, octospori; sporidia conglobata elliptica v. obovata (35–40 × 20 μ), medio 1-septata non v. parce constricta, loculis subaequilongis, supero saepius grosse 1-guttulato, rufo-fuliginea. Species elegantissima *Parodiellae? melioloidi* (B. et C.) Wint. affinis, nisi identica, facillime novi generis inter *Nectriaceas* et *Perisporiaceas* medii typum sistens.

224. Asteridium clavisporum Speg. (n. sp.)

Diag. Amphigenum; hypothallus tenuissimus pelliculosus effusus non v. vix perspicuus; perithecia ovata pruinulosa v. glabra astoma laxe gregaria; asci clavati aparaphysati; sporidia cylindraceo-clavata, 3–5-septata, e chlorino fumosa.

Hab. Ad folia coriacea viva plantae ignotae prope *Apiahy*, Aest. 1888 (sub n. 2384).

Obs. Hypothallus amphigenus maculas parum perspicuas pallide olivaceas orbiculares (2–5''' lt.) sparsas v. confluentes saepeque totum fere folium obtegentes efficiens, tenuissime pelliculosus arcte matrici adnatus, ex hyphis gracilibus (5–6 μ crs.) dense intertextis ac pseudoseptatis opposito-ramosis hyphopodiis destitutis pallide olivaceis efformatum; perithecia in maculis laxe 5-10-gregaria ovata v. subglobosa (150–180 μ dm.) astoma glabra v. pruinulosa fusco-olivacea coriacella, contextu indistincto olivascente; asci clavulati antice rotundati postice cuneato-attenuati (80 × 20 μ) breviter pedicellati aparaphysati octo-

spori; sporidia cylindraceo-v. subfusoideo-clavulata (30-45 × 5-6 μ) superne obtuse, inferne acute rotundata, 3-(rarius 1-4-5-)-septata, ad septa non v. vix constricta recta, primo hyalina dein chlorino-fumosa.

225. Asteridium? dispersum Speg. (n. sp.)

Diag. Hypothallus nullus; perithecia hypophylla sparsa globosa astoma atra pilosula; asci obclavati aparaphysati; sporidia fusiformia 5-septata hyalina.

Hab. Ad folia viva *Pleromatis* speciei cujusdam in dumetis prope *Apiahy*, Jul. 1888 (sub n. 2485).

Obs. Perithecia inter lepides hypophyllas hinc inde solitaria superficialia atra in vivo globosa (120-150 μ) in sicco collabescentia astoma pilis divaricatis rectiusculis (50-150 × 5 μ) non v. septulatis pallide fuligineis apice integris pallidioribusque inspersa membranaceo-coriacella, contextu grosse parenchymatico olivaceo; asci obclavati (65-75 × 12-14 μ) apice obtuse rotundati tenuiterque tunicati, basi pedicello brevi suffulti aparaphysati octospori; sporidia 2-3-sticha elliptico-fusoidea (26-30 × 6 μ) utrinque obtusiuscule acutata recta v. leniter inaequilateralia 5-septata, ad septa non v. vix constricta hyalina. A genere *Acanthostigmate* vix peritheciis astomis recedit, an satis?

226. Hyaloderma perpusillum Speg. (n. sp.)

Diag. Parasitans; perithecia minutissima superne evanida; asci elliptico-obclavati paraphysati; sporidia linearia fusoidea arcuata pluriguttulata hyalina.

Hab. In *Perisporiacea* quadam ad folia viva *Myrtacearum* prope *Apiahy*, Hiem. 1881 (sub n. 1702).

Obs. Hypothallus tenuissimus mucedineus vix perspicuus incrustans; perithecia sparsa v. hinc inde laxe gregaria globulosa (50-70 μ dm.) astoma glabra olivacea tenuissime membranacea superne anhista hyalina mox evanescens,

inferne indistincte subparenchymatica cupulatim persistentia; asci ellipsoidei v. obclavulati (18–20 × 6–7 μ) superne obtuse v. subtruncate rotundati crassiusculeque tunicati, inferne subattenuati brevissime crasseque pedicellati, octospori, paraphysibus filiformibus longioribus saepe ramulosis obvallati; sporidia lineari-fusoidea (14–18 × 1,5 μ) utrinque acuta arcuatula multiguttulata continua hyalina.

227. Meliola pulchella Speg. (n. sp.)

Diag. Subiculum tenuissimum effusum atrum, setulis paucis apice integris, hyphopodiis parcis pedicellatis subglobosis donatum; perithecia globosa glabra verruculosa atra; sporidia 3-septata, loculis 2 extimis subconoideis minoribus.

Hab. Ad folia viva *Myrtaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sub. n. 1699).

Obs. Mycelium irregulariter expansum plagulas tenuissimas arachnoideo-pelliculosas matrici arctiuscule adnatas atras saepe confluentes ac totum folium occupantes efficiens, ex hyphis densiuscule intricatis alterni-ramulosis atris opacis, hyphopodiis paucis alternis globosis (10–12 μ dm.) grosse 1-guttulatis laevibus, 1-cellulari-pedicellatis donatis, hinc inde setulis erectis rigidulis opacis (200–300 × 5–6 μ) apice acutis integrisque inspersis efformatum; perithecia in vivo globosa (200–220 μ dm.) in sicco collabescentia astoma atra glabra papillosa, membranacea coriacella, contextu e cellulis majusculis (7–10 μ dm.) atro-fuligineis composito donata; asci elliptici v. pyriformes (50–60 × 30–40 μ), breviter crasseque pedicellati, 2–4-spori, mox diffluentes; sporidia elliptica saepius curvula 3-septata ad septa constrictula (40–44 × 15–16 μ) loculis duo extimis hemisphaerico-conoideis pro ratione parvulis, opace fuligineae. Species *M. gangliferae* B. et C. et *M. guaraniticae* Speg. peraffinis, ab utraque hyphopodiis globu-

losis laevibus atque loculis apicalibus sporidiorum conoideis recedens.

228. Meliola Puiggarii Speg. (n. sp.)

Diag. Subiculum tenuissimum maculare, setulis destitutum, hypopodiis globoso-angulosis pedicellatis ornatum ; perithecia globosa atra papillosa, setulis subhyalinis crassis brevibusque larvaeformibus inspersa ; sporidia triseptata fuliginea.

Hab. Ad folia viva *Rubi* speciei cujusdam in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2722).

Obs. Mycelium epiphyllum saepius maculas orbiculares (2–5‴ dm.) laxe gregarias atras parum perspicuas efficiens, ex hyphis dense intricatis opposite v. alterne ramosis fuligineis (6–7 μ crs.) septulatis, hyphopodiis globoso-angulosis grosse 1-guttulatis (12-14 × 14 μ) cellula unica longiuscula (14–16 × 5-7 μ) pedicellatis alternis ornatis, setulis destitutis compositum ; perithecia centro macularum saepius 3–8-constipata, in vivo globosa (150-180 μ) in sicco collabescentia atra papilloso-verrucosa, pilis 4-10 cylindraceis divaricatis brevibus crassis (100–130 × 20–25 μ) dense minuteque transverse rugosis apice abrupte inaequilateraliter angulato-acutatis subuncinato-incurvis larvam vermiformem simulantibus sordide hyalinis inspersa, membranaceo-coriacella, contextu subopaco e cellulis polygonis majusculis (15–20 μ dm.) composito donata ; asci elliptici, 2–3-spori mox diffluentes ; sporidia elliptico-cylindracea (40–50 × 14–16 μ) ad septa constrictula, loculis subaequalibus v. extimis vix minoribus, utrinque obtuse rotundata, subopace fuliginea. Species praedistincta, *M. sanguineae* Pk. affinis !

229. Meliola brasiliensis Speg. — Sacc., Syll. pyr. vol. I, f. 66.

Hab. Ad folia subcoriacea *Bignoniaceae*? cujusdam in dumetis prope *Apiahy*, Aest. 1881 (sub n. 1551).

230. Meliola sororcula Speg. (n. sp.)

Diag. Purpureo-maculans, epiphylla; subiculum parcissimum radians atrum setulis destitutum, hyphopodiis pedicellatis subglobosis laevibusque ornatum; perithecia globosa atra verruculosa setulis subhyalinis crassis brevibusque larvaeformibus inspersa; sporidia 4-septata fuliginea.

Hab. Ad folia viva *Baccharidis pingreae* in dumetis prope *Apiahy*, Maj. 1888 (sub. n. 2774).

Obs. Maculae epiphyllae sparsae obscure purpurascentes indeterminatae irregulariter orbiculares (2-5''' dm.) ad hypophyllum non v. vix manifestae; subiculum epiphyllum in centro macularum insidens parum evolutum arachnoideo-radians, ex hyphis atro-fuligineis densiuscule intertextis alterne ramosis, setulis destitutis, hyphopodiis e globoso angulosis (12-14 × 14 μ) grosse 1-guttulatis 1-cellulari-pedicellatis (5-10 × 5-6 μ) alternis ornatis compositum; perithecia in centro subiculi pauci-aggregata, in vivo globulosa (150-180 μ dm.) in sicco collabescentia atra verruculosa, pilis paucis subcylindraceis divaricatulis brevibus crassisque (80-100 × 18-20 μ), dense minutissimeque transverse rugosis, apice abrupte obtuseque acutatis subuncinatisque, sordide e hyalino fumosis (larvaeformibus) inspersa, membranaceo-coriacella, contextu opaco grosse parenchymatico fuligineo-atro; asci elliptici 2-spori mox diffluentes; sporidia cylindracea (45-60 × 18 μ) recta v. vix subcurvula 4-septata, ad septa constricta, loculis omnibus subaequalibus, fuliginea. Species pilorum perithecialium forma priori affinis, *M. sanguineae* Pk. etiam cognata, ab utraque sporidiis 4-septatis mox dignoscenda.

231. Meliola armata Speg. (n. sp.)

Diag. Subiculum maculare glabrum, hyphopodiis clavulatis alternis; perithecia globosa atra glabra basi setulis apice

integris armata; sporidia ellipsoidea 4-septata fuliginea.

Hab. Ad folia coriacea viva *Myrsines*? speciei cujusdam in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2381-82).

Obs. Subiculum epiphyllum plagulas suborbiculares (3-5''' dm.) atras subdeterminatas subcrustaceas rimulosas, a matrice frustulatim secedentes efficiens, ex hyphis dense intricatis saepius opposito-ramosis fuligineis (6-10 μ crs.) subopacis, hyphopodiis densiusculis alternis obovatis v. subclavulatis rectis laevibus obtusis 1-cellulari-pedicellatis (30-35 × 10-14 μ cap. —20-25 × 8-9 μ ped.) ornatis, setulis destitutis compositum; perithecia in plagulis laxe gregaria, in vivo globoso-depressa (100-180 μ dm.), in sicco saepius cupulato-collapsa atra verruculosa glabra membranaceo-coriacella, contextu atro fere indistincto donata, basi setulis submycelialibus erectis rigidulis (100-200 × 8-10 μ) atris opacis apice integris acutisque cincta; asci elliptici apice crasse tunicati base brevissime crasseque pedicellati (60 × 32-45 μ), 2-4-spori; sporidia ellipsoidea utrinque obtuse rotundata (48-55 × 20-24 μ) 4-septata, lenissime constricta subopace fuliginea.

232. Meliola melastomacearum Speg. (n. sp.)

Diag. Subiculum vix evolutum hyphopodiis obovatis laevibus ornatum, setulis destitutum; perithecia globosa hyphis paucis base ornata; sporidia ellipsoidea 4-septata fuliginea.

Hab. Ad folia viva *Melastomacearum* in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2485).

Obs. Subiculum parcissimum plagulas minutissimas (0,5-1''' dm.) sparsas difformes subcrustaceas efficiens, ex hyphis laxe alterne ramulosis flexuosulis (8 μ crs.) opace fuligineis, hyphopodiis alternis densiusculis ellipticis v. obovatis laevibus obtusis brevissime pedicellatis (20 × 14 μ) ornatis, setulis destitutis compositum; perithecia globu-

losa (140–160 μ dm.) verruculosa atra subcarbonacea fragillima base hyphis paucis divaricatis continuis apice integris obtusisque (50–100 × 10 μ) atro-fuligineis adspersa; asci non visi; sporidia cylindraceo-elliptica (36–37 × 14-16 μ) utrinque obtuse rotundata, 4-septata, ad septa leniter constricta fuliginea.

233. Meliola calva Speg. (n. sp.)

Diag. Subiculum effusum tenuissimum hyphis, hyphopodiis alternis obovato-angulatis donatis, setulis destitutis compositum; perithecia minuta glabra; sporidia cylindracea utrinque rotundata 4-septata fuliginea.

Hab. Ad folia viva subcoriacea *Laurinearum* in sylvis prope *Apiahy*, Aest. 1881 (sub n. 1483–1507).

Obs. Subiculum subcrustaceo-effusum tenuissimum arcte matrice adnatum maculas orbiculares (3–5''' dm.) efficiens, epi-v. rarius hypo-phyllum glabrum, ex hyphis (6-12 μ crs.), obscure fuligineis radiantibus flexuosis alterne ramosis densiuscule intertextis, hyphopodiis obovatis (15–20 × 12-13 μ) non v. obsolete angulosis 1-cellulari-pedicellatis alternis ornatis compositum, setulis erectis destitutum; perithecia in vivo globosa (150-220 μ dm.) in sicco depressula astoma atra glabra papillulosa subcarbonacea, contextu opaco imperspicuo atro donata; asci ellipsoidei (50–70 × 30–35 μ), 2-(rarius 3-) spori mox diffluentes; sporidia cylindracea utrinque rotundata (50-55 × 18–20 μ) 4-septata, ad septa constrictula, loculo centrali vix longiore subcrassioreque subopace fuliginea. Species jam sub *M. penicillata* Lév. (Fung. arg. pug. IV n. 117) imprudenter edita, ob hyphas a *Podosporio penicillio* Speg. parasitice infecta. *M. penicillata* Lév., speciminibus typicis inspectis, non est *Meliola !*

234. Meliola spinigera Speg. — Sacc., l. c. f. 66.

Hab. Ad folia coriacea plantae ignotae in dumetis prope *Apiahy*, Hiem. 1881 (sine n.).

Obs. Specimina senescentia subobsoleta, distinctissima tamen; an huc *M. pachytricha* Lév.?

235. Meliola crustacea Speg. (n. sp.)

Diag. Subiculum crustaceum maculare glabrum, hyphopodiis crebris suboppositis magnis ellipticis v. obovatis laevibus ornatum; perithecia globosa atra glabra; sporidia ellipsoidea 4-septata fuliginea.

Hab. Ad folia viva *Drymidis* speciei cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sine n.).

Obs. Subiculum plagulas epiphyllas orbiculares v. irregulares (2-4''' dm.) determinatas atras crustaceas matrici arcte adnatas glabras efficiens, ex hyphis dense intertextis opposito-ramosis crassis (12-14 μ) fuligineis septatis, setulis destitutis, hyphopodiis obovatis v. ellipticis 1-cellulari-pedicellatis (30-35 × 15-20 μ) laevibus suboppositis v. alternis densissime ornatis compositum; perithecia in plagulis constipata v. subcircinata, in vivo globosa (200 μ dm.) in sicco depressula glabra verruculosa coriacea, contextu parenchymatico fere indistincto atro-fuligineo donata; asci ovati (70-80 × 45-50 μ) aparaphysati, 2-spori, mox fluxiles; sporidia ellipsoidea (60-62 × 30-34 μ) utrinque rotundata, 4-septata ad septa constrictula recta, loculis omnibus subaequilongis 1-guttulatis, fuliginea. An huc *M. corallina* Mntgn., sed sporidia non 3-septata?

236. Meliola subcrustacea Speg. (n. sp.)

Diag. Subiculum subcrustaceum maculare glabrum, hyphopodiis paucis alternis subramululiformibus parum manifestis donatum; perithecia globosa atra glabra; sporidia e fronte ellipsoidea e latere subcylindracea 4-septata fuliginea.

Hab. Ad folia viva plantae ignotae cujusdam in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2703).

Obs. Subiculum plagulas epiphyllas suborbiculares (1-3''' dm.) sparsas determinatas atras crustaceas matrici arcte adnatas glabras efficiens, ex hyphis dense intertextis alterne ramosis crassis (14–15 μ crs.) opace fuligineis setulis destitutis, hyphopodiis obovatis sessilibus (30 × 15 μ) subramululiformibus alternis paucissimis sparsis ornatis compositum; perithecia globosa (250–300 μ dm.) glabra verruculosa coriaceo-carbonacea, contextu opaco indistincto; asci elliptici (80–100 × 45–50 μ) subpersistentes apice acutiusculi crassiusculeque tunicati base crasse brevissimeque pedicellati, pseudoparaphysati (an semper?) 2-spori; sporidia e fronte elliptica e latere inaequilateraliter subcylindracea (65–70 μ lg. × 30 μ dm. ant. × 20-30 μ dm. lt.), utrinque obtuse rotundata, 4-septata, ad septa lenissime constrictula (loculo medio caeteris nonnihil majore) fuliginea.

237. Meliola arachnoidea Speg. (n. sp.)

Diag. Subiculum arachnoideo-maculare glabrum, hyphopodiis subsessilibus alternis e globoso ovatis ornatum; perithecia globosa atra glabra; sporidia e fronte elliptico-cylindracea e latere cylindraceo-compressa, 4-septata, fuliginea.

Hab. Ad folia viva *Bignoniaceae* speciei cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sub n. 1551).

Obs. Subiculum plagulas irregulares suborbiculares (1-5''' dm.) saepe confluentes totum epiphyllum obtegentes tenuissime arachnoideo-fibrillosas atras glabras parum perspicuas arcte matrici adnatas efficiens, ex hyphis laxe expansis alterne v. opposite ramosis gracilibus (5-6 μ crs.) septulatis olivaceis, setulis destitutis, hyphopodiis ex obovato subglobosis laevibus brevissime 1-cellulari-pedicellatis (15–16 × 7-8 μ) alternis subdensiusculis ornatis composi

tum; perithecia in plagulis sparsa in vivo globosa (150-200 μ dm.) in sicco depressa glabra subverruculosa atra membranacea, contextu grosse celluloso (cellulis 10 μ dm.) parenchymatico olivaceo-fuligineo donata; asci elliptici (60 × 21 μ) subpersistentes aparaphysati 2-spori; sporidia e fronte cylindraceo-ellipsoidea e latere cylindraceo-compressa (38-40 μ lg. × 15-16 μ dm. ant. × 12 μ dm. lt.), utrinque obtuse rotundata, 4-septata, non v. parce constrictula fuliginea. Species *M. brasiliensi* Speg. valde affinis sed tamen ut videtur satis distincta.

238. Meliola plebeja Speg. (n. sp.)

Diag. Subiculum pruinuloso-maculare glabrum, hyphopodiis alternis quandoque ampulluliformibus quandoque globoso-ovatis angulosis pedicellatis ornatum; perithecia globosa verrucosa atra glabra; sporidia cylindracea, recta v. subcurvula 4-septata fuliginea.

Hab. Ad folia viva *Solanaceae?* cujusdam in dumetis prope *Apiahy,* Maj. 1888 (sub n. 2759).

Obs. Subiculum plagulas hypophyllas irregulares majusculas (2-10‴ dm.) pruinuloso-fibrillosas atras subindeterminatas arcte matrici adnatas efficiens, ex hyphis tortuosis dense intertextis irregulariter ramosis (10 μ crs.) opace fuligineis, setulis destitutis, hyphopodiis alternis quandoque (rarius) ampulluliformibus sessilibus, quandoque anguloso-v. sublobato-globosis, 1-cellulari-pedicellatis (20 × 15 μ), 1-guttulatis densiuscule ornatis compositum; perithecia in plagulis hinc inde constipata v. sparsa in vivo subglobosa (150-180 μ dm.), in sicco rugulosa v. subcupulato-depressa, glabra verruculosa membranacea, contextu grosse parenchymatico-celluloso olivaceo donata; asci elliptici, mox diffluentes, 2-6-spori aparaphysati; sporidia cylindracea (42-46 × 14-16 μ), utrinque obtuse rotundata, loculis omnibus aequalibus, e fronte recta e latere inaequilaterali-subcurvula, 4-sep-

tata, ad septa leniter constricta, subopace fuliginea.

239. Meliola plebeja Speg.

Var. *asperrima* Speg.

Diag. Subiculum pruinuloso-maculare glabrum hyphopodiis alternis e globoso trigonis v. subtrilobis ornatum; perithecia globosa, grosse pyramidato-verrucosa atra glabra; sporidia cylindracea 4-septata, fuliginea.

Hab. Ad folia viva *Solanaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sub n. 1551).

Obs. Subiculum plagulas saepius hypo-(rarius epi-) phyllas irregulares parvulas (1–5''' dm.) plus minusve confluentes efficiens ex hyphis flexuosulis (6–8 μ crs.) dense intertextis alterne ramosis fuligineis septulatis, setulis destitutis, hyphopodiis laxis alternis ex obovato v. globoso trigonis v. subtrilobis (20×15 μ), 1-guttulatis, compositum; perithecia in plagulis laxe gregaria v. sparsa globosa (200 μ dm.) in parte supera grosse pyramidato-verrucosa coriacella, atra glabra, contextu indistincto atro opaco; asci non visi; sporidia elliptico-cylindracea (42–43 × 17–18 μ), utrinque obtusa, 4-septata, ad septa parum constricta, loculis omnibus subaequalibus, fuliginea. An huc *M. triloba* Wint.?

240. Meliola decidua Speg. (n. sp.)

Diag. Subiculum plagulas membranaceas dense velutino-hirsutas orbiculares maculis bullosis insidentes facillime a matrice secedentes efficiens, aterrimum, hyphopodiis densis suboppositis obovatis, setulis apice integris instructum; perithecia in villo subiculi abscondita globosa glabra atra; sporidia cylindracea 4-septata fuliginea.

Hab. Ad folia viva *Convolvulaceae*? cujusdam in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2344).

Obs. Maculae amphigenae fuscescentes orbiculares (3–6''' dm.) bullosae indeterminatae; subiculum pulvinulos orbiculares (2–5''' dm.) epiphyllos maculis insidentes ac fa-

cillime a matrice integros secedentes, inferne membranaceos laeves, superne dense velutino-hispidulos aterrimos efficiens, ex hyphis crassiusculis (10-14 μ crs.) rectiusculis fuligineis opacis dense intertextis ac ramulosis, setulis rigidulis erectis (300–500 × 10 μ) apice integris attenuato-acutatis opacis densissime armatis, hyphopodiis elliptico-v. obovato-subglobosis laevibus v. vix angulosis (20–25 × 15 μ) brevissime 1-cellulari-pedicellatis, grosse 1-guttulatis subopace fuligineis alternis v. suboppositis dense ornatis compositum; perithecia inter setulas nidulantia atque abscondita globosa (180–200 μ dm.) atra vix verruculosa glabra coriacella, contextu indistincto atro-opaco; asci non visi; sporidia cylindracea (50-52 × 15-16 μ) 4-septata, ad septa subconstrictula, loculis extimis caeteris non v. vix longioribus rotundatis v. subacutato-rotundatis donata, subopace fuliginea.

241. Meliola? clavatispora Speg. (n. sp.)

Diag. Subiculum maculare pilosum, pilis apice integris, hyphopodiis alternis subglobosis sessilibus ornatum; perithecia globosa pilosa atra; asci cylindracei subclavati octospori persistentes aparaphysati; sporidia clavulata 4–septata utrinque obtusa opace fuliginea.

Hab. Ad folia viva *Apocineae* speciei cujusdam in sylvis prope *Apiahy*, Apr. 1881 (sub n. 1701).

Obs. Subiculum plagulas epiphyllas sparsas irregulariter orbiculares (1–3''' dm.) olivaceo-atras, laxe pilosulas parum perspicuas efficiens, ex hyphis flexuosulis (10 μ crs.) dense irregulariterque ramuloso-intertextis, pilis erectis (120-180 × 6-8 μ) flaccidis flexuosis septulatis atris opacis apice integris pallidioribus pellucidis acutis v. obtusis integris densiuscule adspersis, hyphopodiis sessilibus irregulariter subglobosis (10 × 10 μ) laevibus integris opacis alternis ornatis; perithecia in plagulis solitaria v. pauci-gregaria subglobosa (200-250 μ dm.) atra, pilis patulis

(50-80 × 7 μ) atro-opacis laxe subvestita; asci cylindracei v. cylindraceo-subclavulati (100 × 20-30 μ) apice rotundati base subcuneato-pedicellati, 8-spori, aparaphysati; sporidia recte v. suboblique disticha clavulata (40-45 × 12 μ), primo 4-blasta fumosa, dein 4-septata, ad septa constrictula, loculo cuarto supero caeteris subcrassiore, utrinque obtusa, subopace fuliginea. Species omnium partium fabrica a genere *Meliola* nonnihil recedens.

SPHAERIACEAE Fr.

242. Eutypa ludibunda Sacc., l. c. f. 167.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1555-1573-2596).

Obs. Formae brasilienses stromatibus parvulis ellipticis v. elongato-confluentibus saepe inter crustas licheninas erumpentibus, *Graphidem* quamdam majusculam simulantibus; ostiola 3-4-sulcata non v. vix exertula; asci clavulati apice truncati basi longe pedicellati (p. sp. 30-50 × 5-7 μ) aparaphysati octospori; sporidia allantoidea plus minusve curvula (8-12 × 2,5-3 μ) utrinque 1-guttulata, chlorinula.

243. Eutypa lophiostomoides Speg. (n. sp.)

Diag. Stroma late ambiens; acervuli pustulato-elevati ostiolis saepius lophiostomoideis brevissime fasciculato-erumpentibus coronati; asci clavulati apice acutati postice longe pedicellati paraphysati octospori; sporidia allantoidea parum curvula chlorina.

Hab. Ad corticem ramorum putrescentium in sylvis prope *Apiahy*, Hiem. 1881 (sub n. 1681).

Obs. Stroma effusum aequale sub peridermio summoque corticis strato supero evolutum, eisque fere immutatis arctiuscule adnatum semper tectum; acervuli conferte gre-

garii densiusculeque atque modice pustulato-elevati (1-2''' dm.) disco, ex ostiolis fasciculato-erumpentibus minute hysterioideis efformato, parum elevato coronati; perithecia in acervulis 2-7-gregaria globulosa (120–150 μ dm.) atra glabra membranaceo-coriacella, contextu indistincto donata; asci clavulati apice attenuato-acutati postice longissime pedicellati (p. sp. 35 × 6 μ), octospori paraphysibus praelongis densissimis filiformibusque obvallati; sporidia allantoidea (8-10 × 2-2,5 μ) parum curvula utrinque plus minusve rotundata atque saepius 1-guttulata chlorina. Species pulchella habitu *Cryptosphaeriae populinae* (Pers.) Sacc., simillima, omniumque tamen partium fabrica priori peraffinis; an tantum ejusdem varietas?

244. Eutypa fraxini (Nitz.) Sacc. — l. c. f. 174.

Hab. Ad ramos dejectos putrescentes in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2684).

Obs. Forma brasiliensis magis effusa atque acervulis parvulis densis pustulaeformibus donata, matrice cinerascenti-infuscata insidens; asci clavulati (70 μ lg. tot. — p. sp. 30–35 × 5–6 μ) octospori paraphysibus filiformibus tenuibus guttulatis paucis immixti; sporidia allantoidea (9–10 × 2–2,5 μ) recta v. curvula utrinque obtusa ac eguttulata chlorina. An species distincta?

245. Cryptovalsa platensis Speg. — Sacc., l. c. f. 189.

Hab. Ad ramulos dejectos putrescentes in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2347).

Obs. Specimina brasiliensia a typo acervulis majoribus e cortice erumpentibus subvalsoideis recedentia; asci clavati (p. sp. 80 × 10 μ) longe pedicellati aparaphysati; sporidia allantoidea (6-8 × 1,5 μ) leniter curvula eguttulata chlorina.

246. Diatrype Puiggarii Speg. (n. sp.)

Diag. Superficialis hemisphaerica minuta ostiolis exasperata extus atra intus virescentia; perithecia pauca globosa; asci clavati longissime stipitati octospori; sporidia botuliformia modice curvula chlorinula.

Hab. Ad ramulos dejectos putrescentes in dumetis uliginosis prope *Apiahy*, Maj. 1888 (sub n. 2357).

Obs. Stromata superficialia facillime a matrice immutata secedentia e globoso depressa v. e lenticulari hemisphaerica (1–1,5''' lt. × 0,5–0,8''' crs.), sparsa v. hinc inde laxe aggregata ruguloso-asperula, extus atra glabra, intus ex albo pallide sordideque virescentia; perithecia monosticha globulosa (200–220 μ dm.) in quoque stromate 3–12-aggregata, membranacea, contextu parum distincto, olivacea, in ostiolo subcarbonaceo atro stromatis superficem attingente parceque subexertulo producta; asci clavulati (p.-sp. 15–25 × 2,5–4,5 μ) apice rotundati deorsum longissime stipitati octospori aparaphysati; sporidia conglobata v. subdisticha allantoidea (6 × 1 μ) modice curvula utrinque rotundata ac 1-guttulata chlorinula. Species *D. laurinae* Rhm satis accedens.

247. Diatrypella verruciformis (Ehr.) Nitz. — Sacc., l. c. f. 200.

Hab. Ad corticem ramorum putrescentium in hortis prope *Apiahy*, Hiem. 1881 (sine n.).

Obs. Asci clavati apice rotundati deorsum longe attenuato-pedicellati (120 μ lg. tot. — p. sp. 60 × 12–14 μ) polyspori aparaphysati; sporidia conglobata leniter curvula (4-6 × 1,5 μ) utrinque obtusula ac 1-guttulata chlorinula.

248. Diatrypeopsis laccata Speg. — Fung. guar. pug. I, n. 186.

Hab. Ad corticem ramorum putrescentium in sylvis prope *Apiahy*, Apr. 1881 (sub n. 1615).

Obs. Stromata cortice duriore innato-impressa orbicularia (10–15''' diam.) determinata aterrima nitentia laevia v. vix

undulata ac sub lente valida punctulato-asperula; asci sporidiaque desiderata.

249. Anthostomella nobilis Sacc. et Speg. — Sacc., l. c. f. 292.

Hab. Ad folia dejecta putrescentia *Nectandrae* speciei cujusdam in sylvis prope *Apiahy*, Jul. 1881 (sub n. 1636).

Obs. Specimina brasiliensia vix a typo recedunt; perithecia sparsa amphigena parenchymate innata, epidermide vix nigrificato adnato-tecta, minuta (150–200 μ dm.) coriacella, contextu indistincto; asci cylindracei apice obtuse rotundati base breviter crassiusculeque stipitati (70–80 × 7-8 μ) octospori aparaphysati; sporidia recte v. oblique monosticha, elliptica v. vix subnavicularia utrinque obtuse acutata (12–14 × 5-6 μ) non v. 1-2-guttulata fuliginea.

250. Anthostomella Puiggarii Speg. — Sacc., l. c. f. 280.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Apiahy,* per ann. 1881-88 (sub n. 1032–2386).

Obs. Specimina culmicola a foliicolis typicis in l. c. descriptis nonnihil deflectentia. Macula nulla v. ellipsoideo-elongata (5–15''' lg. × 2-5''' lt.) fuscescens, linea nulla cincta; perithecia in centro macularum laxe aggregata v. sparsa immersa v. parce prominula (200–250 μ) coriacella, contextu indistincto ostiolo carbonaceo epidermidem vix circum circa nigrificatam perforante donata; asci cylindracei antice obtusissime rotundati postice modice attenuato-pedicellati e latere compressi (65-70 × 3–5 × 2 μ) non v. parcissime paraphysati octospori; sporidia recte monosticha e fronte elliptica plus minusve inaequilateralia (5-8 × 3–4 μ) e latere valide compressa (1,5 μ crs.) utrinque obtusiuscula fuliginea, muco destituta.

251. Hypoxylon? cyclopicum Speg. (n. sp.)

Diag. Perithecia maxima atra mammaeformia grosse transverse rugosa ostiolo conico majusculo acuto coronata dense constipata stromate parcissimo concolore juncta; asci cylindracei octospori mox diffluentes; sporidia elongata inaequilateralia utrinque obtusa fuliginea.

Hab. In trunco decorticato putrescente in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2374).

Obs. Stroma nullum v. vix manifestum; perithecia superficialia inferne densissime constipata subglobosa maxima (2–3‴ dm.) e mutua pressione saepius angulosa atra opaca glabra, superne libera transverse plus minusve perspicue ac dense rugoso-undulata apice ostiolo conoideo majusculo laevissimo acuto ornata; asci densissime subfasciculati (15–16 μ crs.) cito diffluentes octospori; sporidia oblique monosticha cylindraceo-ellipsoidea plus minusve inaequilateralia utrinque obtusiuscula (35-40 × 10-12 μ) eguttulata subopace fuliginea. Species nobilissima ad *Roselliniam*, sectionis *Fassiellae*, characteribus perplurimis vergens!

252. Hypoxylon? goliath Speg. (n. sp.)

Diag. Perithecia maxima atra globosa dense majusculeque papilloso-verrucosa ostiolo minuto zona laevi subcincto coronata, stromate concolore parcissimo juncta; asci cylindracei octospori mox diffluentes; sporidia gigantea fusiformia utrinque longissime setiformi-attenuata fuliginea.

Hab. Ad corticem caudicis putrescentis in sylvis prope *Apiahy*, Jul. 1888 (sub. n. 2380).

Obs. Stroma parcissimum atrum vix manifestum; perithecia superficialia densissime constipata globosa maxima (2-2,5‴ dm.) atra opaca glabra verruculis majusculis obtusis dense vestita, superne zona laevi plus minusve perspicua centro ostiolo vix papillulato minuto perforata; asci densissimi subfasciculati (18-20 μ crs.) cito diffluentes

octospori; sporidia oblique monosticha fusiformia v. elongato-navicularia (100 × 12-14 μ) utrinque in appendice setuliformi (15–25 × 1-2 μ) recta v. subflexuosa attenuato-producta, eguttulata opace fuliginea. Species etiam praedistincta omnium partium fabrica ad *Roselliniam*, sectionis *Fassiellae*, vergens.

253. Hypoxylon apiahynum Speg. (n. sp.)

Diag. Subcrustaceo-effusum atrum, stromate parco, peritheciis globosis exertis dense constipatis, ostiolis minutis areolato-applanatis efformatum; sporidia minuta navicularia fuliginea.

Hab. Ad corticem ramorum putrescentium in sylvis prope *Apiahy*, Jun. 1881 (sub n. 1655).

Obs. Perithecia dense constipata atra globosa (400–500 μ dm.) stromate concolore parco juncta, pulvinulos irregulares (1–2‴ dm.) superficiales saepe confluentes parum prominulos ambitu non effusos efficientia, superne plus minusve exerta atque ostiolo minute papillulato, areola discoidali impressa plana concolore, vix sub lente perspicua, ruga gracillima limitata cincto coronata, carbonacea opaca sublaevia; asci octospori mox diffluentes; sporidia oblique v. recte monosticha elliptico-navicularia (8–9 × 4 μ) utrinque obtusiuscula opace fuliginea.

254. Hypoxylon chionostomum Speg. (n. sp.)

Diag. Irregulariter glomerulosum, stromate plus minusve evoluto, peritheciis globosis plus minusve exertis, ostiolis obtuse papillatis subtruncatis disco albo donatis; sporidia elliptica fuliginea.

Hab. Ad corticem dejectum putrescentem in sylvis prope *Apiahy*, Jun. 1888 (sub n. 2858).

Obs. Perithecia quandoque solitaria quandoque 5–30-glomerulata recta v. obliqua stromate plus minusve evoluto juncta, exerta v. plus minusve immersa globosa (900–

1200 μ dm.) atra carbonacea opaca laevia, ostiolo umbonato obtuso apice truncato atque areola sordide alba plus minusve determinata (200-250 μ dm.) donato coronata; asci cylindracei apice obtuse rotundati base breviter attenuato-pedicellati (p. sp. 180 × 20 μ) octospori paraphysibus filiformibus longioribus immixti; sporidia oblique monosticha late elliptica (26–28 × 14–16 μ) utrinque obtusissima non v. vix subinaequilateralia opace fuliginea. An huc *H. leucostomum* Ck.?

255. Hypoxylon leptascum Speg. (n. sp.)

Diag. Crustaceo-effusum tenue atrum, peritheciis stromate immersis globosis vix colliculoso-prominulis papillulato-ostiolatis; asci longiusculi gracillimi paraphysati octospori; sporidia elliptico-elongata inaequilateralia fuliginea.

Hab. Ad corticem putrescentem in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2769).

Obs. Perithecia globosa (500–600 μ dm.) densissime constipata atra opaca glabra stromate fere tota immersa vix superne subhemisphaerico-prominula, plagulas atras granulosas (10–15''' dm.) subtenues crustaceas irregulariter expansas ambitu repandas atque abruptiuscule rotundato-subtruncatas efficientia, ostiolo parvulo conoideo-papillulato obtusiusculo coronata; asci cylindracei apice subtruncato-rotundati base longiuscule attenuato-pedicellati (p. sp. 60–70 × 5 μ) e sterigmatibus longiusculis ramulosis ruguloso-crassiusculis (25–30 × 3-4 μ) exsurgentes octospori parcissime paraphysati; sporidia elliptico-elongata v. elongato-navicularia (10 × 4 μ) utrinque acutiuscule rotundata, non v. minute 2-guttulata, pallide fuligineo-fumosa.

256. Hypoxylon umbilicatum Speg. (n. sp.)

Diag. Irregulariter glomerulosum sordide ochraceum, stro-

mate parcissimo, peritheciis globulosis ostiolo crasse umbonato profundeque umbilicato coronatis; asci cylindracei octospori aparaphysati; sporidia late elliptica fuliginea.

Hab. Ad palos dejectos putrescentes in hortis, *Apiahy*, Maj. 1888 (sub n. 2858).

Obs. Perithecia 12-100-gregaria glomerulos superficiales pulvinulatos irregulares sparsos v. confluentes efficientia, dense constipata globulosa (600–700 μ dm.) inferne stromate parco juncta, superne libera globulosa carbonacea atra, pruinula crassa sordide ochracea v. ferruginea incrustata, apice ostiolo majuscule umbonato centroque umbilicato concolore donata; asci cylindracei apice obtusissime rotundati postice longiuscule attenuato-pedicellati (p. sp. 300-350 × 24-25 μ = ped. 50-100 × 10-15 μ), 6-8-spori aparaphysati; sporidia recte monosticha late elliptica (38-40 × 20-22 μ) non v. leniter inaequitateralia eguttulata opace fuliginea.

257. Hypoxylon Puiggarii Speg. (n. sp.)

Diag. Fusco–atrum late crustaceo–effusum stromate eximie evoluto, peritheciis vix prominulis globulosis ostiolo minutissimo papillulato areola impressa cincto donatis; asci cylindracei octospori aparaphysati; sporidia elliptico–navicularia fuliginea.

Hab. Ad corticem putrescentem ramorum in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2341).

Obs. Perithecia densissime constipata carbonacea atra globulosa (500–600 μ dm.) stromate immersa vix superne granuloso-prominula, plagulas crustaceas subtenues late effusas (10-80''' dm.) ambitu repandas abrupte obtuseque rotundatas efficientia, primo sordide subpruinuloso–fusca dein glabrata atra opaca, ostiolo minutissimo papillaeformi, areola discoidali (90-120 μ dm.), vix sub lente perspicua, impressa, rugula tenuissima vix elevata margi–

nata concolore, trita subcyanescente, cincto ornata; asci cylindracei apice obtuse rotundati base modice attenuato-pedicellati (p. sp. 50-60 × 4-5 μ — ped. 20-25 × 2-3 μ) octospori aparaphysati; sporidia recte v. vix oblique monosticha elliptica v. navicularia, utrinque plus minusve acutiuscule rotundata (6-7 × 3 μ) opace fuliginea.

258. Camillea turbinata (Brk.) Speg. — Sacc., l. c. f. 372 (sub *Hypoxylo*).

Hab. Vulgata ad ramos truncosque emortuos in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1451-1501-2345).

Obs. Specimina saepius sterilia etsi sine dubio ullo ascigera, stromatibus quandoque parvulis sparsis, quandoque majoribus dense constipatis primo sordide obscureque fusco-ferrugineis laevibus, dein atris subnitentibus minutissime reticulato-rugulosis.

259. Camillea bilabiata Speg. (n. sp.)

Diag. Superficialis atra parvula subconoidea, apice profunde excavata, foveola margine obtusa naviculari-bilabiata; perithecia cylindracea stromate omnino immersa; asci et sporidia non visa.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2846).

Obs. Stromata sparsa v. laxe subgregaria, e conoideo hemisphaerica, e latere saepius leniter compresso-elongatula parvula (4-5‴ dm. × 2,5-3‴ alt.) superne foveola hemisphaerico-elongata (1,5‴ dm.) profunda margine obtuso naviculari utrinque minute subacutato-labiato cincta donata, atra opaca v. vix in labiis nitentia glabra laevia v. sub lente non v. lenissime obsolete subconcentriceque rugulosa crasse carbonacea durissima, intus concoloria peritheciis farcta; perithecia ellipsoideo-cylindracea dense constipata (1,5-2‴ alt. × 300-400 μ dm.) e mutua pressione saepius angulosa, tenuia, rigidula atra opaca, apice

ostiolo minutissimo instromatis foveola confluente coronata; asci et sporidia deficientia. Species praedistincta mox dignoscenda, sed difficillime exacte describenda!

260. Penzigia obovata (Brk.) Speg. — Sacc., l. c. f. 317 (sub *Xylaria*).

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Jun. 1888 (sub n. 1489-2915).

Obs. Stromata sparsa v. subcoespitosa, globosa ovata v. obovata (8-15''' dm.) saepe subundulata v. hinc inde obtuse submammillosa, extus coffeaecoloria v. fusco-testacea glaberrima, oculo nudo laevia, sub lente dense leniterque granuloso-papillosa sessilia v. base abrupte in pedicello gracili brevissimoque (1-3''' lg. $\times$ 1''' crs.) concolore glabro laevi producta, intus primo e base radiatim carnoso-fibrosa, dein araneosa, postremo cava ligneo-alba cortice tenuissimo fragili; perithecia densissime constipata globulosa majuscula (700-1000 μ dm.) extus non prominula, cortice stromatis adnata ac in ejusdem parte interna substantia subflocculosa ligneo-alba obovoluta; asci cylindracei apice obtuse rotundati, base longiuscule attenuato-pedicellati (p. sp. 200 $\times$ 10 μ — ped. 80-100 $\times$ 2-5 μ) octospori dense paraphysati; sporidia oblique monosticha cylindraceo-fusoidea (28-30 $\times$ 7-8 μ) inaequilateralia v. lenissime curvula opace fuliginea. Specimina typica *Xylariae obovatae* Brk. vix cortice externe obscuriore ac sub lente fere laevi, interne fibris v. medulla corticali deficientia recedunt.

261. Kretzmaria puiggarii (Speg.) Sacc. — Syll. pyr. vol. II, add. f. XXIX.

Hab. Ad caudices vetustos putrescentes in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 27-1445-2346).

Obs. Specimina hujus speciei cum nonnullis cubensibus, a Cl. Wrightio sub nomine *K. clavi* Fr. et *K. coenopi* (Mntgn.)

missis, comparata nullum discrimen inter illa reperire potui, etsi secundum diagnoses auctorum species mea a caeteris certe distincta! An species unica tantum nonnihil variabilis ac saepius imperfecte descripta? Sporidia fusoideo-navicularia (27-30 × 6-8 μ) non v. grosse 1–2–guttulata, opace fuliginea, per aetatem longitudinaliter rimosa.

262. Xylaria hypoxylon (L.) Grev. — Sacc., Syll. pyr. vol. I, f. 333.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2350–2354).

Obs. Forma conidiophora atque ascophora. Asci cylindracei antice rotundati postice attenuato-pedicellati (p. sp. 60-65 × 5-6 μ — ped. 25-30 × 2–3 μ) octospori aparaphysati; sporidia oblique v. subrecte monosticha navicularia (8-10 × 4-5 μ) fuliginea. Conidia pulverulenta elliptico-cylindracea (8–10 × 2-3 μ) utrinque obtusiuscula non v. leniter inaequilateralia hyalina.

263. Xylaria venosula Speg. (n. sp.)

Diag. Xylodactyla; minuta cylindracea crusta cinerascente reticulato-rimosa tecta, mucrone sterili donata, stipite sordide ochraceo-villoso suffulta; perithecia omnino immersa, ostiolo non v. vix exerto; asci cylindracei octospori aparaphysati; sporidia mediocria elliptico-navicularia fuliginea.

Hab. Ad caudices muscosos putrescentes in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1684-2360).

Obs. Coespitosa; clavulae cylindraceae teretes non v. undulatae utrinque abrupte coarctatae (5–10‴ lg. × 2,5–3‴ crs.) superne saepius in mucrone sterile acutoque (1–2‴ lg.) productae, inferne stipite longiusculo tenui (5-15‴ × 1‴ crs.) sordide rufo-villosulo suffultae, extus crusta sordide fusco-cinerascente dense reticulato-rimulosa tectae, rimulis fusco-ferrugineis tenuibus vix impressis rugulosis

non v. parce papillulato-asperis, intus farctae albae sublignosae; perithecia densiuscule constipata globulosa (400–500 μ dm.) omnino immersa ostiolis vix papillulatis ac in rimis corticis stromatis saepe subseriatis coronata; asci cylindracei apice obtuse rotundati base modice attenuato-pedicellati (p. sp. 90–100 × 7–9 μ — ped. 35–40 × 2-3 μ) octospori aparaphysati; sporidia elliptica v. subcylindraceo-navicularia (14–18 × 6-7 μ) utrinque obtusiuscule acutata, primo 4-blasta hyalina, dein 2-guttulata fumosa, postremo eguttulata subopace fuliginea. Species pulcherrima *X. grammicae* Mntgn. peraffinis et facile ejusdem varietatem pusillam sistens.

264. Xylaria polymorpha (Pers.) Grev. — Sacc., l. c. f. 309.

Hab. Ad caudices muscosos putrescentes in sylvis prope *Apiahy*, Hiem. 1888.

Obs. Formae sequentes mihi adsunt:

a) Acrodactyla Nitz., nonnihil ad *Pistillarem* Nitz. vergens, extus tabacino-fusca rugulosa intus alba, sterilis (sub n. 2386).

b) Pistillaris Nitz. nonnihil compressa, extus atra ruguloso-subgranulosa intus alba lignosa; asci cylindracei pedicellati (200–210 μ × 10 μ lg. tot. — p. sp. 120 μ) paraphysati; sporidia elliptico-subfusiformia utrinque acutiuscula (20 × 6 μ) fuliginea (sub n. 2779).

265. Xylaria fragariaeformis Speg. (n. sp.)

Diag. Xyloglossa, atra fragariaeformis, inferne sterilis modice pedicellata, intus farcta alba lignosa; perithecia globosa vix prominula; asci cylindracei octospori paraphysati; sporidia submajuscula elliptico-navicularia fuliginea.

Hab. Ad caudices vetustos cariosos in sylvis prope *Apiahy*, Jun. 1888 (sine n.).

Obs. Clavulae saepius solitariae ovatae (12-13''' alt. × 10''' dm.) atrae, in parte supera conoideo-subhemisphaericae obtu-

siusculae dense peritheciigero-granulosae, in parte infera turbinatae laeves steriles, farctae, intus colore atque natura fere lignea, pedicello glabro ruguloso atro breviusculo (6–7''' × 2–3''') suffultae; perithecia in parte supera peritheciigera clavularum dense constipata monosticha globulosa v. ovata (500–600 μ dm.) e mutua pressione saepe angulosa e stromate leniter prominula atque extus minute denseque verruculosa, ostiolo vix perspicuo donata, coriacella nigro-farcta; asci cylindracei apice obtusissime rotundati postice modice attenuato-pedicellati (p. sp. 200–250 × 10–14 μ — pd. 50 × 5 μ) octospori paraphysibus filiformibus obvallati; sporidia suboblique monosticha elliptico-elongata (22–24 × 9–10 μ) utrinque acutiuscule rotundata plus minusve inaequilateralia non v. 1-2-guttulata opace fuliginea. Species pulcherrima *X. polymorphae* (Pers.) Grev. affinis, forma mox tamen dignoscenda.

266. Xylaria trivialis Speg. (n. sp.)

Diag. Xyloglossa; stromata irregulariter subcylindracea atra apice obtusa undique fertilia fragillima intus cava stipite plus minusve evoluto glabro suffulta; asci cylindracei paraphysati octospori; sporidia navicularia minuta fuliginea.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2779).

Obs. Simplex v. coespitosa; clavulae cylindraceae teretes compressae v. ruguloso-canaliculatae, saepe tortuosae v. hinc inde coarctatae, superne obtusissime rotundatae inferne plus minusve abrupte attenuatae (15–20''' lg. × 6–10''' crs.) pedicello brevi v. longiusculo terete ruguloso tortuoso glabro concolore (10''' lg. × 1''' crs.) suffultae, extus atrae v. perdilute caesiae v. subcoerulescentes (sub luce refracta), minute laxeque papillulosae carbonaceae fragillimae, intus cavae, parietibus tenuissimis peritheciis

vestitis donata; perithecia globulosa (500-600 μ dm.) densissime constipata atra in stromate non prominula ostiolo minutissimo non v. vix papillulato-exerto coronata, in parte interna stromatis albo-furfuracea; asci cylindracei mox diffluentes (5-6 μ crs.) octospori, paraphysibus filiformibus guttulatis obvallati; sporidia monosticha navicularia (10 × 4 μ) utrinque acutiuscule rotundata, saepius grosse 1-guttulata, obscure fuliginea. Species *X. polymorphae* (Pers.) Grev., sed stromate atro subcyanescente cavo deflectens; an huc *X. cubensis* Mntgn.?

267. Xylaria ippoglossa Speg. (n. sp.)

Diag. Xylocoryne; clavulae linguaeformes intus farctae albae extus atrae lenissime rugulosae, stipite conoideo-cylindraceo, strato pannoso fusco-atro vestito, impositae; perithecia globosa immersa; asci cylindracei longe pedicellati octospori paraphysati; sporidia elliptico-navicularia mediocria fuliginea.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2892).

Obs. Stromata solitaria v. laxe gregaria linguaeformia v. rarius spathulata apice obtusiuscule rotundata base abrupte coarctata (40-70‴ lg. × 10-12‴ lt. × 5-6‴ crs.) margine integra obtusa, vix rugulosa (in sicco) ostiolis minutissimis (vix sub lente perspicuis) dense exasperata, stipite lignoso intus albo, extus fusco-nigro, e terete conoideo (20-30‴ lg. × 5-10‴ crs.) strato pannoso (1-3‴ crs.) facile secedente sordide atro vestito suffulta; perithecia globulosa (400-600 μ dm.) immersa ostiolo corticem stromatis vix perforante ac subexertulo donata, dense constipata e mutua pressione angulosa; asci cylindracei (150-200 × 7-8 μ) densissimi, in parte sporifera (90-110 μ lg.) stipite nonnihil longiores; sporidia cylindraceo-fusoidea curvula (12-16 × 5-6 μ) utrinque obtusiuscula saepeque minute 1-guttulata subopace fuliginea.

268. Xylaria leprosa Speg. (n. sp.)

Diag. Xylocoryne; clavulae sublinguaeformes intus farctae albae, extus pallide lateritio-fulvescentes densissime minuteque nigro-rimuloso-reticulatae, stipite tereti-conoideo strato pannoso crasso vestito suffultae; perithecia immersa globosa atra; asci cylindracei longe pedicellati paraphysati, octospori; sporidia cylindraceo-navicularia submediocria fuliginea.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2892).

Obs. Stromata solitaria v. laxe gregaria saepius spathulata v. linguaeformia (20–30‴ lg. × 10-15‴ lt. × 3-5‴ crs.), ubique fertilia cortice opaco pallide rufescenti-lateritio, dense minutissimeque rimuloso-reticulato, rimulis nigris minute granuloso-verruculosis (sub lente) ex ostiolis erumpentibus, recta, lignosa dura, intus farcta alba, stipite e conoideo subcylindraceo (15-20‴ lg. × 5-7‴ crs.) strato pannoso crasso sordide fusco-atro vestito donata; perithecia immersa subglobosa (400-500 μ) densissime constipata, e mutua pressione saepe angulosa atra fusco-farcta, ostiolis corticem stromatis perforantibus ac per rimulas prominulis coronata; asci cylindracei (160-180 × 7–8 μ), in parte sporifera (120-130 μ lg.) pedicello conspicue longiores; sporidia cylindraceo-subfusoidea (17-20 × 5 μ) curvula utrinque obtusiuscula eguttulata subopace fuliginea.

269. Xylaria subtorulosa Speg. (n. sp.)

Diag. Xylocoryne?; stromata simplicia atra cylindraceo-elliptica v. obovata rugulosa atque grosse toruloso-tuberculata stipite brevissimo suffulta; perithecia semiimmersa globosa papillulato-ostiolata; asci cylindracei paraphysati octospori; sporidia submajuscula navicularia fuliginea.

Hab. Ad caudices muscosos putrescentes in sylvis prope *Apiahy*, Jan. 1888 (sub n. 2909).

Obs. Stromata sparsa v. hinc inde laxe gregaria erecta rigida fragilia, extus atra v. atro-fusca, intus albo-farcta; stipes subcylindraceus teres v. subcompressus plus minusve evolutus (2-5‴ lg. × 1‴ crs.) in juventute dense minuteque atro-hirsutus in senectute saepius glabratus longitudinaliter rugosus abrupte in clavula productus; clavula recta erecta forma magnitudineque varia, apice sterili nullo (10-15‴ lg. × 2,5-4‴ crs.), ubique dense grosseque tuberculato-torulosa ob perithecia subdemersa, extus atro-fusca glabra, intus pulpa sublignea alba farcta; perithecia majuscula (600-1000 μ dm.) globosa, stromate plus minusve insculpta ac prominula, atra, extus (sub lente) minutissime ruguloso-rimulosa, centro ostiolo minuto papillulato obtuso donata, intus pulpa mucosa fusca repleta; asci cylindracei apice subtruncato-rotundati crassissime tunicati deorsum in pedicello longiusculo attenuati (p. sp. 200 × 8-10 μ — pd. 50-70 × 3-5 μ) paraphysibus filiformibus obvallati octospori; sporidia recte monosticha cymbaeformia (20-22 × 6-7 μ) utrinque acutiuscule obtusata continua subopace fuliginea. Species pulchella minuta pluribus aliis affinis, sed notis fructificationis ac habitu mox dignoscenda.

270. Xylaria tigrina Speg. (n. sp.)

Diag. Xylocoryne; clavula ovata atra, minute cinereo-tigrina stipite aterrimo velutino; perithecia majuscula immersa globosa; asci cylindracei aparaphysati; sporidia cylindraceo-subnavicularia fuliginea.

Hab. Ad ramos dejectos putrescentes sub folia sternata in sylvis prope *Apiahy*, Apr. 1888 (sine n.).

Obs. Stromata solitaria erecta simplicia; clavula ovata v. elongato-ovata integra obtusa (10-12‴ lg. × 7-8‴ crs.) inferne abrupte coarctata, intus alba farcta, extus atra v. fusco-atra undique fertilia ac ostiolis non v. vix promínulis, areola polygona angulosa (200-600 μ dm.) cinera-

scente subfurfuraceo-compactiuscula saepius cinctis ornata; stipes e base saepius umbilicata clavulae enatus rectus (20''' lg. × 2''' crs.) irregulariter compressus v. subtortus minute densissimeque atro-velutinus; perithecia subcorticalia dense stipata globoso-depressa (1000-1500 μ dm. × 600-800 μ alt.) non prominula ostiolo vix papillulato stroma perforante ac non v. vix exerto ornata, pulpa fuscescente farcta; asci cylindracei antice rotundati postice longiuscule pedicellati (p. sp. 250-300 × 10-12 μ), 4-8-spori aparaphysati; sporidia recte v. suboblique monosticha cylindracea v. subnavicularia (30-40 × 8-16 μ) utrinque plus minusve acute rotundata leniter curvula, primo grosse 1-v. 2-guttulata, dein continua fuliginea subopaca. Species nobilissima habitu externo nec non sporidiorum fabrica mox dignoscenda.

271. USTULINA BRASILIENSIS Speg. — Sacc., l. c. f. 351.

Hab. Ad truncos dejectos putrescentes prope *Freguesia de Ribeira*, Maj. 1881 (sub n. 1504).

272. USTULINA VULGARIS Tul.? — Sacc., l. c. p. 351.

Hab. Ad ramos majores arborum dejectos putrescentes in sylvis prope *Apiahy*, Hiem. 1881 (sub n. 1683).

Obs. Forma juvenilis adhuc sterilis, stromate extus cinereo-caesio minute laxeque nigro-punctulato, intus ligneo-albo farcto.

273. DALDINIA CONCENTRICA (Bolt.) Ces. et DNtrs. — Sacc., l. c. f. 393.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Apiahy*, Aest. (sub n. 459).

Obs. Specimina senescentia sterilia sed habitu atque stromatis fabrica interna cum typo plane congruentia.

274. NUMMULARIA PUNCTULATA (B. et Rav.) Sacc.? — l. c. f. 399.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2374).

Obs. Specimina sterilia sed characteribus externis cum typo perfecte congruentia.

275. Sphaerella apiahyna Speg. (n. sp.)

Diag. Maculae arescenti-impressae determinatae rufescentes hypophyllae; perithecia sparsa globulosa immersa; asci obclavati; sporidia cylindraceo-clavulata hyalina.

Hab. Ad folia languida coriacea *Ericaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2580).

Obs. Maculae sparsae superne vix manifestae fuscescentes indeterminatae, ad hypophyllum irregulariter suborbiculares (1–3''' dm.) epidermide orbatae impressae subferrugineae linea tumidula limitatae; perithecia hypophylla in maculis laxe gregaria v. sparsa globulosa minuta (90–120 μ dm.) atra glabra coriacella, contextu parenchymatico parum distincto vix papillulato ostiolata; asci obclavulati antice obtusissime rotundati postice breviter crasseque stipitati (40 × 10 μ) octospori aparaphysati; sporidia 2-v. 3-sticha cylindraceo-clavulata (9-10 × 3 μ) utrinque obtusiuscula 1-septata non v. vix constrictula loculo supero subbreviore atque subcrassiore hyalina.

276. Sphaerella Puiggarii Speg. (n. sp.)

Diag. Maculae epiphyllae minutae candidae determinatae; perithecia lenticularia minuta atra; asci obclavulati; sporidia elliptico-obovata, hyalina.

Hab. Ad folia viva *Bouddleiae* speciei cujusdam in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2727).

Obs. Maculae candidae determinatae irregulariter suborbiculares (1–2''' dm.) arescenti-candidae, ad epiphyllum nudae perspicuae, ad hypophyllum tomento foliari tectae ac, luce interjecta, vix visibiles; perithecia in centro macularum 1–5–aggregata, minute punctiformia (100-120 μ dm.) atra, in vivo hemisphaerico-lenticularia in sicco collabe-

scentia innato-prominula, glabra, tenui-membranacea, contextu parenchymatico olivaceo, ostiolo minutissimo perforata; asci obclavati apice rotundati crasseque tunicati, base brevissime grosseque stipitati (50 × 10-15 μ) octospori aparaphysati; sporidia 2-3-sticha elliptica v. elliptico-obovata (16-18 × 4-5 μ) utrinque acutiuscule rotundata, medio 1-septata, non v. vix subconstricta (an demum triseptata?) hyalina.

BIZOZZERIA Speg. (n. gen.)

Char. Perithecia superficialia globosa coriacea atra; asci octospori paraphysati; sporidia botuliformia 1-septata, e hyalino chlorina.

Obs. Genus memoriae amici carissimi *J. Bizozzero* patavino botanicae et mycologiae meritissimi dicatum. An melius *Allantosporis*, unacum *Kakosphaeria* Speg., adscribendum?

277. BIZOZZERIA DIDYMA Speg. (sp.)

Diag. Perithecia dense constipata superficialia atra glabra breviter crasseque stipitulata, mox profunde umbilicato-collapsa; asci clavulati longe stipitati octospori paraphysati; sporidia allantoidea 1-septata fumoso-chlorina.

Hab. Ad corticem crassiorem putrescentem arborum in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2534).

Obs. Perithecia dense constipata sed semper discreta plagulas atras latiusculas (20-100‴ lg. × 10-20‴ lt.) efficientia, in vivo globulosa (600-750 μ) in sicco saepius profunde collapso-umbilicata atque, e mutua pressione, subtrigono-angulosa, base pedicello brevissimo crassoque suffulta glabra, oculo nudo laevia, sub lente valida minutissime pruinuloso-papillosa atro-fusca, subiculo destituta, crassiuscule subcoriacea, contextu opaco indistincto olivaceo, ostiolo minutissimo non v. vix perspicuo perforata; asci clavulati (200 μ lg. tot.) superne subtruncato-rotundati crassiusculeque tunicati, inferne longe attenua-

to-pedicellati (p. sp. 65-70 × 10-12 μ — ped. 110-130 × 2-5 μ) octospori, paraphysibus filiformibus densiusculis obvallati; sporidia cylindracea saepius curvula utrinque obtusa (20 × 6 μ) primo continua granuloso-farcta hyalina, dein medio 1-septata non constricta fumoso-chlorina. Jodi ope nulla! Species nobilissima habitu fere lichenino, primo obtutu, *Trichosphaeriae acanthostromae* (Mntgn.) Sacc. (*Sphaeria foveolata* B. et R.) simillima sed mox subiculi setularumque deficientia dignoscenda.

278. Enchnosphaeria? spinulosa Speg. (n. sp.)

Diag. Perithecia epiphylla sparsa globulosa fusca, superne appendicibus pluribus divaricatis stellato-patulis longiusculis canescentibus ornata; asci cylindracei octospori paraphysati; sporidia cylindracea majuscula 7-septata hyalina.

Hab. Ad folia viva *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Jul. 1888 (sub n. 2342).

Obs. Perithecia epiphylla sparsa v. laxe gregaria saepius hypothallo tenuissimo e hyalino cinerascente pelliculoso arcte matrice adnato latiuscule vageque expanso insidentia globosa (200-250 μ dm.) sordide cinerascentia, superne appendicibus 5 v. 10 (saepius 6) divaricatis stellato-patulis concoloribus, apice acutis erosulis pallescentibus (250-300 × 30-50 μ), ex hyphis tenuibus olivascentibus dense fasciculatis coalescentibusque efformatis ornata, centro ostiolo minuto perforata, coriacella, contextu atro indistincto; asci cylindracei sursum rotondati subcrassiuscule tunicati, deorsum breviter cuneato-pedicellati (80 × 15-16 μ) densiuscule paraphysati octospori; sporidia oblique 2-3-sticha cylindracea (35 × 6 μ) utrinque subattenuato-rotundata, recta v. leniter subinaequilateralia, 7-septata, hyalina. Iodi ope nulla; gonidia non visa. Species habitu satis lichenino sed a fungis nullo modo separanda.

279. Leptosphaeria? austro-americana Speg. — Sacc., Syll. pyr. vol. II, f. 48.

Hab. Ad folia viva *Plantaginis* speciei cujusdam in pratis uliginosis prope *Apiahy*, Maj. 1888 (sub n. 2460).

Obs. Specimina brasiliensia subimmatura ac notis fructificationis vix recedens ; asci ovati (50 × 25–30 μ) octospori aparaphysati ; sporidia subconglobata subclavulata utrinque obtusiuscula (22–30 × 7-10 μ) primo 1-septata (loculo supero breviore crassiore ac subacutiore) dein 4-blasta, postremo 3-septata ad septum medium vix constrictula hyalina.

280. Leptosphaeria brasiliensis Speg. (n. sp.)

Diag. Maculae amphigenae subdeterminatae fusco-v. cinerascenti-arescentes ; perithecia innato-erumpentia confertiuscula epiphylla globoso-conoidea atra laevia ; asci mox diffluentes; sporidia triseptata subfusiformia olivacea.

Hab. Ad folia viva *Xanthoxyleae* v. *Anacardiaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2365).

Obs. Maculae majusculae (5–15‴ dm.) irregulariter orbiculares saepius confluentes determinatae amphigenae, inferne fuscae, superne pallidiores, centro cinerascentes ; perithecia epiphylla in maculis densiuscule gregaria, conoideo-prominula (150–180 μ dm.) atra glabra coriacella, contextu indistincto olivaceo ; asci non visi mox diffluentes ; sporidia elliptico-subfusiformia (25–30 × 6–8 μ) utrinque acutiuscula, primo 1-septata, dein 3-septata, ad septum medium vix constricta, recta v. inaequilateralia olivacea. An *Hendersonia?*

281. Leptosphaeria Puiggarii Speg. (n. sp.)

Diag. Maculae fuscae minutae indeterminatae ; perithecia, globosa infossa seriata, atra glabra ; asci fusoidei octospori paraphysati ; sporidia fusoidea 5-septata mellea.

Hab. Ad folia emortua *Andropogonis saccharoidis* in pratis prope *Apiahy*, Aut. 1888 (sub n. 2587).

Obs. Maculae amphigenae fusco-rufescentes lineares indeterminatae saepe centro subcinerascentes; perithecia parenchymate omnino immersa sparsa v. saepius laxe seriata, globoso-lenticularia (200-250 μ dm.) atra glabra, contextu parenchymatico denso olivaceo, ostiolo minuto papillulato carbonaceo epidermidem matricis perforante ac subexertulo atro coronata; asci fusoidei v. subclavulati antice attenuati ac obtuse rotundati crassiuscule tunicati postice breviter cuneato-pedicellati (90-100 × 20 μ) octospori paraphysibus filiformibus densis obvallati; sporidia oblique disticha elliptico-subfusoidea (28-30 × 8-9 μ) v. lenissime subfusoideo-clavulata, utrinque acutiuscule rotundata recta v. subcurvula, 5-septata, ad septa constrictula, loculo cuarto supero crassiore tumidioreque, pallide mellea

PSEUDOMELIOLIA Speg. (n. gen.)

Char. Perithecia in thallo pelliculoso tenuissimo atro mox evanescente dense constipata superficialia globosa ostiolata carbonacea; asci octospori paraphysati; sporidia cylindraceo-subfiliformia continua guttulata chlorina.

Obs. Genus pulchellum habitu ac vegetatione *Parodiellae*, sed sporidiorum fabrica praedistinctum. An melius inter *Perisporiaceas* adscribendum?

282. PSEUDOMELIOLIA BRASILIENSIS Speg. (n. sp.)

Diag. Perithecia epiphylla hinc inde glomerulata atra globoso-ovata, minute papillulato-ostiolata; asci elliptico-ovati octospori paraphysati; sporidia lineari-fusoídea curvula e chlorino olivacea.

Hab. Ad folia viva *Araucariae brasiliensis* prope *Apiahy*, Aut. 1888 (sub n. 2775).

Obs. Maculae nullae; subiculum atrum membranaceo-crustaceum vix evolutum; perithecia epiphylla saepius densissime 5-100-constipata, plagulas atras granulosas difformes (1-5''' lat.) hinc inde efficientia, globulosa v. ovata

(200-250 μ dm.) non v. vix umbonatulo-ostiolata, atra, primo pilis paucis canescentibus brevissimis adspersa dein glabrata laevia subcarbonacea, contextu indistincto atro-olivaceo; asci elliptico-ovati (40-45 × 10-12 μ) antice subtruncato-rotundati subcrassiuscule tunicati, postice brevissime crasseque pedicellati, paraphysibus valde longioribus filiformibus flexuosulis saepe ramulosis gracilibus obvallati octospori; sporidia conglobata lineari-fusoidea (30 × 3 μ) curvula, praecipue ad apices, utrinque acutiuscula, guttulata continua, primo hyalina dein olivascentia.

HYPOCREACEAE DNtrs.

283. Nectria heterospora Speg. (n. sp.)

Diag. Perithecia subsparsa globosa collabescentia carnea laxe albo-villosula; asci difformes mox diffluentes saepius octospori; sporidia elliptica didyma, unum in quoque asco maximum verruculosum, caetera minuta laevia hyalina.

Hab. In thallo *Stictinae* et *Physciae* cujusdam vulgata in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 124-126-524-2617).

Obs. Perithecia superficialia sparsa v. hinc inde 2-5-aggregata, in vivo globulosa (300 μ dm.) in sicco cupulato-collapsa carnea pilis sparsis erectis flexuosulis septulatis apice integris obtusis (100-250 × 5-7 μ) hyalinis adspersa, vix papillulato-ostiolata carnosulo-membranacea, contextu indistincto fulvo-carneo; asci primo cylindracei v. subclavulati (35-45 × 10-14 μ) mox saccato-v. toruloso-difformes ac diffluentes; sporidia primo omnia aequalia, dein dimorpha, alia fertilia (saepius unum tantum in quoque asco) magna ellipsoidea (40-60 × 20-30 μ) medio 1-septata non v. parce constrictula minute denseque asperula,

alia abortiva ? minuta (10-12 × 5-6 μ) elliptica medio 1-septata non v. vix subconstrictula laevia (an quandoque minutissime subrugulosa ?), omnia primo hyalina dein pallide fuscescentia. Iodi ope sporidia fertilia flavescunt. Huc ducenda *N. lecanodes* Wint. (nec Ces.) in *Rabh.* Fung. eurp. n. 3252 edita. An *N. lecanodes* Ces., cum qua notis externis eximie congruit, tantum varietas ?

284. Nectria oidioides Speg. (n. sp.)

Diag. Perithecia hypophylla laxe gregaria globulosa aurantia astoma, subiculo arachnoideo-pelliculoso candido insidentia ; asci fusoidei octospori aparaphysati ; sporidia clavulata 1-septata hyalina.

Hab. Ad folia viva *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Apr. 1881 (sub n. 1507).

Obs. Subiculum glabrum, maculas orbiculari-effusas (1-3''' dm.) tenuissimas candidas hypophyllas efficiens, ex hyphis dense intricato-ramulosis (2-4 μ crs.) hyalinis continuis v. parce septulatis, hyphopodiis destitutis, compositum ; perithecia in centro subiculi laxe gregaria v. sparsa superficialia globosa minutissima (80-90 μ dm.) pallide mellea glabra v. vix papillosa astoma carnosulo-membranacea, contextu indistincto pallide fulvo ; asci fusoidei (50-60 × 9-10 μ) antice obtuse rotundati crassiusculeque tunicati, deorsum cuneati minuteque pedicellati octospori aparaphysati ; sporidia disticha clavulata (20 × 4 μ) superne obtuse inferne acutiuscule rotundata, medio 1-septata non constricta hyalina. An ob ostioli deficientiam melius novum genus ?

285. Nectria puberula Speg. (n. sp.)

Diag. Lasionectria ; perithecia globoso-cupulata superficialia gregaria carneo-aurantia albo-puberula ; asci clavulati aparaphysati ; sporidia cylindraceo-fusoidea 1-septata hyalina.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Apiahy*, Hiem. 1888 (sub n. 2386).

Obs. Perithecia superficialia 15-50 constipata, plagulas irregulares (1-3''' dm.) hinc inde efficientia, in vivo globosa (120-150 μ dm.) in sicco saepius cupulato-collapsa, lateritio-v. carneo-aurantia, pilis minutis albis breviusculis (30–80 × 5 μ) continuis simplicibus hyalinis v. chlorinulis laxe adspersa, saepe base hyphis paucis gracilibus (2–3 μ crs.) laxe ramuloso-intricatis cincta, carnosulo-membranacea, contextu indistincto aurantiaco, ostiolo minuto vix papillulato ornata; asci clavulati (55–60 × 8-10 μ) sursum subattenuati apiceque rotundati v. subtruncati, deorsum cuneati atque in pedicello brevi producti, octospori aparaphysati; sporidia recte v. oblique disticha subfusoidea (16–24 × 4 μ) utrinque obtusiuscula medio 1-septata non v. vix constrictula, loculis non v. 2-guttulatis, recta v. leniter inaequilateralia hyalina. Species nobiliuscula *N. hirtellae* S. et S. accedens, satis tamen ab ea distincta.

286. Nectria lichenophila Speg. (n. sp.)

Diag. Perithecia sparsa superficialia globosa non collabescentia, carneo-mellea laxe albo-puberula; asci cylindraceo-clavulati 4-spori aparaphysati; sporidia elliptico-fusoidea utrinque acuta didyma hyalina.

Hab. In laciniis thalli *Physciae* cujusdam in sylvis prope *Apiahy*, Hiem. 1881 (sine n.).

Obs. Perithecia sparsa v. hinc inde 2-5–gregaria superficialia in vivo globosa (200–250 μ dm.) in sicco contracto-rugosa, pilis paucis subdiffluentibus hyalinis continuis (50-100 × 4-5 μ) laxe vestita, base hyphis nonnullis ramuloso-intertextis (3–4 μ crs.) septulatis cincta, pulchre aurantia v. carneo-mellea membranaceo-carnosula, contextu minutissime parenchymatico parum distincto fulvo-aurantio, ostiolo vix papillulato donata; asci cylindraceo-clavulati

apice rotundati deorsum attenuato-pedicellati (p. sp. 40-45 × 15 μ — ped. 10-20 × 4-8 μ), 4-spori, aparaphysati; sporidia recte disticha, elliptico-fusoidea (22-25 × 7-8 μ) utrinque acutissima, medio 1-septata parceque subconstricta hyalina. Species vix peritheciis pilosulis atque ascis tetrasporis a *N. lichenicola* (Ces.) Sacc. recedens.

287. Nectria episphaeria (Tod.) Fr. — Sacc., l. c. f. 497.

Hab. Ad ostiola *Nummulariae* cujusdam ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Apr. 1888 (sub n. 4677).

Obs. Specimina brasiliensia a typo nonnihil deflectentia. Perithecia solitaria v. laxe 2-5-gregaria superficialia ovata (140-150 μ alt. × 100-120 μ dm.) aurantio-coccinea, subpellucida glabra tenui-membranacea contextu parenchymatico, in ostiolo prosenchymatico-fimbriatulo, donata; asci diffluentes non visi; sporidia primo elliptica, ovoidea v. subbiconica medio 1-septata non constricta laevia hyalina, dein ellipsoidea, medio 1-septulato-constrictula (8-10 × 4-5 μ) lenissime striatulo-subverruculosa ac subfumosa.

288. Nectria ? Puiggarii Speg. (n. sp.)

Diag. Subiculum submembranaceo-gossypinulum candidum; perithecia subiculo immersa fusco-coccinea; asci cylindraceo-fusoidei octospori aparaphysati; sporidia ellipsoidea 1-septata hyalina.

Hab. Ad clavulas vivas *Xylariae ippoglossae* Speg. in caudicibus putrescentibus prope *Apiahy*, Maj. 1888 (sub n. 2892).

Obs. Subiculum tenuissime membranaceo-tomentosulum compactiusculum ex hyphis tenuibus (2,5-3 μ crs.) dense intricato-ramulosis hyalinis subcontinuis efformatum, album late expansum; perithecia densiuscule aggregata in matrice superficialia, subiculo immersa glabra e globoso

ovata (120-150 μ dm.) tenui carnosulo-membranacea contextu parenchymatico aurantio-fulvello donata, ostiolo non v. vix papillulato subfuscescente coronata; asci apice truncati base breviter attenuato-pedicellati (65-80 × 8 μ); sporidia oblique mono-v. di-sticha obovato-ellipsoidea v. biconica (10-16 × 5-6 μ) utrinque obtusiuscula, saepe 4-guttulata, episporio laevi v. lenissime striato, hyalina. Species notis perplurimis priori accedens, sed subiculi praesentia praecipue recedens et tandem generi *Hypomyceti* vergens!

289. Nectria coccogena Speg. (n. sp.)

Diag. Eunectria; perithecia globulosa dense constipata crusta stromatica insidentia glabra obscure aurantia; asci cylindracei aparaphysati; sporidia elliptica utrinque obtusa hyalina.

Hab. Ad *Coccos* emortuos in foliis vivis *Eugeniae* speciei cujusdam, prope *Apiahy*, Aut. 1888 (sub n. 2338).

Obs. Perithecia crusta stromatica tenui matricem vestiente adnataque pallide aurantia insidentia, globulosa (120-150 μ dm.) dense constipata subconfluentia, vix ostiolo papillulata, primo pruinula subgossypinula hyalina adspersa, mox glabrata nuda obscure aurantia, carnoso-membranacea, contextu parenchymatico sinuoso parum distincto donata; asci cylindracei (100-120 × 14-16 μ) sursum leniter attenuati apice truncato-rotundati, deorsum modice attenuato-pedicellati octospori, aparaphysati; sporidia oblique monosticha v. subdisticha elliptica (20-26 × 8-10 μ) utrinque obtusiuscula medio 1-septata non constricta recta v. lenissime inaequilateralia, primo hyalina laevia, dein subrufescentia minutissimeque longitudinaliter striolata? Cum *N. coccorum* Speg. non comparanda.

290. Nectria Balansae Speg. — Fung. guar. pug. I, n. 203.

Hab. Ad corticem putrescentem arborum in sylvis prope *Apiahy*, Hiem. 1881 (sub n. 1680).

Obs. Specimina brasiliensia vix a typo recedunt. Perithecia minuta (400–800 μ dm.) densissime constipata citrina v. aurantia, in sicco ruguloso-compressa, squarrulosa v. hyphis paucis gracilibus (5–8 μ crs.) ornata, membranaceo-carnosula, contextu grosse celluloso-parenchymatico; asci cylindraceo-clavati (100–110 × 15–18 μ) apice truncati deorsum attenuato-pedicellati, octospori, aparaphysati; sporidia recte v. oblique disticha, elliptico-biconica (18–22 × 8–10 μ) utrinque obtusa primo 4-guttulata, dein 1-septato-constricta, longitudinaliter rugulosa, perdilute fumosa.

291. Nectria vulgaris Speg. — Sacc., l. c. f. 483.

Hab. Ad cortices dejectos putrescentes in hortis prope *Apiahy*, Hiem. 1881 (sine n.).

Obs. Perithecia aurantio-flava primo albo-squarrulosa, dein glabrata globosa (250-300 μ dm.), non v. vix collabescentia; asci cylindracei (40-45 × 7-8 μ) octospori non v. parcissime paraphysati; sporidia elliptica v. elliptico-subbiconica utrinque truncata (9–11 × 3–4 μ) laevia hyalina.

292. Metanectria ? sigmatospora Speg. (n. sp.)

Diag. Perithecia gregaria innato-superficialia globosa albo-rosea glabra; asci subcylindracei 32-spori aparaphysati; sporidia fusoideo-sigmoidea utrinque setigero-caudata 1-septata hyalina.

Hab. Ad lacinias vivas *Physciae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 124).

Obs. Perithecia hinc inde praecipue in apicibus laciniarum matricis, densiuscule gregaria, innato-superficialia globosa v. globoso-depressula (300-450 μ dm.) glabra laevia albo-carnea v. rosea, ostiolo non v. vix perspicuo saepius

nigricante ornata, carnosula, contextu indistincto albo-roseolo; asci cylindracei (130-150 × 15–20 μ) sursum non v. vix subattenuati apice rotundati crassiusculeque tunicati, deorsum leniter attenuati baseque brevissime crasseque pedicellati, 32-spori, aparaphysati muco immersi; sporidia polysticha fusoideo-sigmoidea (50–60 × 3-4 μ) utrinque setula rectiuscula rigidula aucta (crp. spr. 22-25 μ lg. — set. 15–16 × 1 μ) medio 1-septata non constricta hyalina. Jodi ope nulla!

293. Hypocrea virescenti-flava Speg. (n. sp.)

Diag. Euhypocrea; stromata sparsa v. gregaria pusilla pezizoidea sessilia citrino-flava; perithecia globosa immersa; asci cylindracei aparaphysati; sporidia didyma, loculis e cuboideo globosis, olivacea.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Apiahy,* Hiem. 1888 (sub n. 2353).

Obs. Stromata sparsa v. hinc inde 2–3-aggregata rarius confluentia pezizoidea (1–1,5‴ dm.) sessilia, inferne hemisphaerico-turbinata, superne applanata margine obtusa subrepanda, disco minute denseque subrufescenti-punctulata, contextu carnosulo indistincto e virescente flavescente; perithecia densiuscule gregaria immersa subsuccineo-aurantia, globosa (200–250 μ dm.) ostiolo non v. v. vix papillulato-exerto donata; asci cylindracei (100-110 × 6–7 μ) apice subtruncato-rotundati deorsum breviter attenuato-pedicellati octospori aparaphysati; sporidia e loculis duobus globoso-cuboideis (6 × 6 μ) olivaceis mox secedentibus efformata. Ab *H. subcitrina* K. et C. vix sporidiis minoribus fuscescentibusque differt, atque ab *H. citrinella* Ell. sporidiorum colore atque fabrica recedit.

294. Hypocrea Puiggarii Speg. (n. sp.)

Diag. Euhypocrea; sparsa v. gregaria ex hemisphaerico

lenticularia extus coccinea intus alba; perithecia immersa difformia minuta; asci cylindracei; sporidia didyma, loculis e globoso cuboideis, hyalina.

Hab. Ad ramos dejectos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1630).

Obs. Stromata sparsa v. gregaria rarius confluentia primo lenticularia utrinque convexula dein hemisphaerica superne convexa inferne subapplanata (1-5‴ dm.) margine obtusa integra v. vix repanda, extus coccinea, in vivo laevia, in sicco subrugulosa, intus dura subcoriacea alba saepius obsoletissime concentrice zonulata; perithecia periphaerica sub cortice densissime constipata non prominula astoma?, globulosa (100-150 μ dm.) v. e mutua pressione difformia, contextu indistincto pallide rubescente; asci cylindracei antice truncato-rotundati, deorsum breviter attenuato-pedicellati (70-80 $\times$ 4,5-5 μ) octospori aparaphysati; sporidia recte monosticha didyma, loculis subcuboideis (4 $\times$ 4 μ) mox secedentibus 1-guttulatis, laevia hyalina. Species nobilissima *H. hematoplacae* Mntgn. certe peraffinis, sed peritheciis non prominulis praecipue recedens.

295. Calonectria ambigua Speg. — Sacc., l. c. f. 544.

Hab. Ad folia viva *Laurineae* cujusdam in nemorosis prope *Apiahy*, Jul. 1881 (sub n. 1507).

296. Calonectria leucorrhodina Speg. — Sacc., l. c. f. 548.

Hab. In *Lichenibus* atque *Perisporiaceis* ad folia viva arborum plurimarum prope *Apiahy*, per ann. 1881-88 (sub n. 1442 et sine n.).

297. Calonectria lichenigena Speg. (n. sp.)

Diag. Perithecia coespitulosa stromate tubercularieo tecta v. juncta, erumpentia carneo-aurantia glabra; asci cylindracei octospori; sporidia ellipsoidea 3-septata hyalina.

Hab. In thallo lichenino quodam ad cortices languidos *Apiahy*, Jul. 1881 (sine n.).

Obs. Coespituli superficiales v. e rimulis thalli erumpentes subpezizoidei (1-1,5''' dm.) superne hemisphaerici v. applanati, margine repandi obtusi pallide aurantii v. carneo-aurantii, glabri, laeves v. colliculosi; perithecia in coespitulis 2-8-gregaria stromate tubercularieo saepe tecta v. prominulo-exerta, in vivo globulosa (180-220 μ dm.) in sicco subcollabescentia pallide roseo-aurantia, ostiolo vix v. non prominulo saepius fuscescente ornata, membranaceo-carnosula, contextu grosse parenchymato subhyalino donata; asci e cylindraceo subfusoidei apice subtruncato-rotundati base breviter attenuato-pedicellati (80-120 $\times$ 15-20 μ) magnitudine saepius ludentes mox fluxiles 2-4-6-8-spori aparaphysati; sporidia oblique monosticha v. recte disticha elliptica (28 $\times$ 8-12 μ) utrinque obtusa recta v. inaequilateralia 3-septata, ad septa non constricta, loculis omnibus aequalibus, primo hyalina dein subchlorina.

298. Paranectria coespitosa Speg. (n. sp.)

Diag. Perithecia superficialia coespitosa aurantia dense strigoseque albo-gossypina globoso-ovoidea minuta; asci cylindracei dense paraphysati; sporidia elliptico-fusoidea inferne appendice curva v. abrupte angulosa aucta, 3-septata hyalina.

Hab. Ad folia coriacea viva plantae ignotae in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2707).

Obs. Perithecia amphigena 3-20-coespitosa, e globoso ovoidea (300-350 μ dm.) inferne saepius minute substipitulata non v. vix ostiolato-papillulata, pilis longis teretibus flexuosis (100-500 $\times$ 3-5 μ) apice integris obtusis dense strigoseque intertextis hyalinis vestita, carnosulo-membranacea, contextu grosse parenchymatico-celluloso (cell. 10-15 μ dm.) e hyalino carneo-aurantio, vix circa ostiolum

fuscescente donata; asci cylindracei v. subclavulati (130-150 × 20 μ) sursum rotundati crassiusculeque tunicati, deorsum attenuati breviter pedicellati octospori dense pseudoparaphysati; sporidia oblique monosticha v. recte disticha elliptico-fusoidea, superne longiuscule obtuseque mucronato-producta, inferne appendice cylindracea v. subclavulata obtusa curvula v. abrupte angulato-flexa aucta (spor. 40 × 9-10 μ — app. 5-10 × 2-3 μ) hyalina, 3-septata non v. vix ad medium tantum subconstrictula.

299. Ophionectria ? Puiggarii Speg. (n. sp.)

Diag. Perithecia hypophylla superficialia sparsa globosa sordide succineo-lateritia glabra saepe superne albo-pruinolosa; asci elliptici; sporidia cylindraceo-fusoidea subcurvula 3-septata hyalina.

Hab. Ad folia dejecta putrescentia *Laurineae* cujusdam in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2562).

Obs. Maculae nullae; perithecia in hypophyllo densiuscule sparsa superficialia arcte matrici adnata, in vivo globosa (250-300 μ dm.) in sicco subcorrugato-depressa rufescenti-fusca, glabra laevia, saepius apice e sporis exilientibus crusta v. pruinula alba tecta, vix papillulato-ostiolata carnoso-membranacea, contextu grosse parenchymatico-celluloso parum distincto succineo v. fulvo, circa ostiolum fuscescente donata; asci elliptici (70×20 μ) octospori, aparaphysati? mox diffluentes; sporidia conglobata cylindraceo-fusoidea (60 × 6 μ) utrinque attenuata sed obtusiuscula recta v. leniter curvula, 3-septata non constricta hyalina.

Globulina Speg. (n. gen.)

Char. Perithecia minuta superficialia astoma membranacea laeticoloria subiculo mucedineo radiante phyllogeno insi-

dentia: asci cylindracei octospori aparaphysati; sporidia filiformia septulata hyalina.

Genus habitu *Perisporiaceis* accedens, sed peritheciorum natura melius *Hypocreaceis* adscribendum.

300. Globulina erisyphoides Speg. (n. sp.)

Diag. Perithecia amphigena globosa alba astoma subiculo fibroso-radiante superficiale immersa v. vestita; asci cylindracei; sporidia filiformia hyalina.

Hab. Ad folia viva non coriacea *Compositae* cujusdam herbaceae in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2785).

Obs. Maculae nullae; perithecia hinc inde 3-5-gregaria, rarius solitaria, minutissima (100-150 μ dm.) alba hyphis gracillimis longiusculis (400-600 × 2-3 μ) continuis hyalinis radiantibus vestita, plagulas minutissimas (1-2''' dm.) albas sparsas arachnoideo-oidiaceas efficientia astoma; asci cylindracei (80-90 × 8-10 μ) ubique subcrassiuscule tunicati, apice rotundati deorsum cuneati breviter crasseque pedicellati octospori aparaphysati; sporidia filiformi-cylindracea (75-80 × 2 μ) utrinque obtusiuscula recta v. flexuosula, 15-20-septulata, ad septa non constrictula hyalina.

301. Hypocreella colliculosa Speg. (n. sp.)

Diag. Stromata epiphylla nerviseda subgregaria hemisphaerico-colliculosa, pallide subaurantia glabra; perithecia periphaerica globosa; asci cylindracei aparaphysati; sporidia filiformia in articulis magnitudine ludentibus secedentia, hyalina.

Hab. Ad folia viva *Rubiaceae* arboreae cujusdam in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2339).

Obs. Stromata epiphylla saepius in nervatione primaria, rarius in secundariis, insidentia, arcte matrici adnata, ex orbiculari hemisphaerica (1,5-3''' dm. × 1-1,5''' crs.) sessilia

glabra, ob perithecia prominula dense verrucoso-colliculosa, extus pallide carnea v. aurantia, intus alba; perithecia globosa (250-300 μ dm.) stromate immersa plus minusve prominula ostiolo papillulato vix v. non exerto coronata, contextu carnosulo indistincto; asci cylindracei (200 × 10 μ) apice subtruncato-rotundati, tunica non v. vix incrassata, base subattenuati ac in pedicello brevissimo crassoque producti, octospori aparaphysati; sporidia fasciculata, primo cylindracea septulata, ascorum longitudine, mox in articulis plus minusve elongatis (5-10 × 3 μ) utrinque obtuse rotundatis secedentia.

302. Hypocreella Spegazzinii Sacc. — l. c. f. 579.

Hab. Ad folia viva *Coutareae mollis* in dumetis prope *Apiahy*, Maj. 1881 (sub n. 1483).

Obs. Species sub nomine *H. phyllogenae* (Mntgn.) Speg. in Fung. arg. pug. IV, n. 209 edita, a qua tamen secundum Cl. Dr. P. A. Saccardo satis recedens.

303. Hypocreella citrina Speg. (n. sp.)

Diag. Stromata hypophylla sparsa hemisphaerico-lenticularia glabra hypothallo hyalino pelliculoso radiante superficiale insidentia, superne applanata ac saepius papillulosa; perithecia globulosa immersa; asci cylindracei aparaphysati; sporidia filiformia continua hyalina.

Hab. Ad folia emortua *Myrtaceae* v. *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2538).

Obs. Stromata hypophylla sparsa v. hinc inde laxe 2-3-gregaria, orbicularia (1-2''' dm.) ambitu integra, inferne non v. vix coarctatula, hypothallo tenuissimo hyalino membranaceo-radiante (3-4''' dm.) facillime a matrice secedente insidenti-adnata, superne saepius applanata, rarius hemisphaerica, primo laevia, dein minute papillulato-aspera, extus glabra, in juventute albescenti-flavescentia, per aetatem citrina, saepe in senectute centro depressa ac sub-

fulvescentia, intus alba, e cellulis cylindraceis brevibus crassis flexuosis obtusis rarius ramulosis hyalinis (30 × 5 μ) dense constipatis composita; perithecia in margine stromatum saepius constipata immersa globosa (250 μ dm.) ostiolo papillulato non v. vix exerto-prominulo ab subsuccineo coronata; asci cylindracei (120–130 × 6-8 μ) v. subfusoidei, apice rotundato-truncati crasse tunicati 1-foveolati, deorsum attenuati in pedicello breviusculo producti octospori aparaphysati; sporidia ascorum longitudine (100–110 × 1 μ) filiformia utrinque attenuato-acutiuscula continua (an semper?) integra, rarius in articulis magnitudine summope ludentibus secedentia hyalina.

304. Cordiceps Puiggarii Speg. (n. sp.)

Hab. In corpore *Polybiae* (*Vespae*) *fasciatae* S. Farg. inter folia coacervata propre *Apiahy*, Hiem. 1881 (sine n.).

Obs. Species in Fung. arg. pug. IV, n. 207 imprudenter sub nomine *C. sphaecophilae* (Kl.) Brk. et C. edita; nunc cum speciminibus typicis cubensibus hujus speciei comparata longe abhorrens videtur. Clavulae sursum in apice conoideo longiusculo acuto sterili attenuatae; cnft. descriptionem in l. c. et in Sacc., Syll. pyr. v. II, f. 568.

305. Cordiceps martialis Speg. (n. sp.)

Diag. Stromata coespitosa erecta glabra majuscula inferne teretia superne compressa simplicia v. saepe furcata aurantiaca carnoso lenta croceo-papillosa; perithecia stromate infossa ostiolo conico exerto ornata minuta; asci cylindracei longissimi aparaphysati; sporidia filiformia gracillima hyalina.

Hab. Ad larvas *Cerambicideae* cujusdam ad caudices cariosos prope *Apiahy*, Aut. 1888 (sub n. 2879).

Obs. Stromata in extremitatibus (in cephalica praecipue) corporis coespitosa, saepe base subfasciculata v. connata, e subiculo furfuraceo-squarruloso totam matricem vestiente

exsurgentia erecta recta v. leniter falcato-curvula (40–50‴ lg.) base teretia (1,5–2‴ crs.) sursum gradatim incrassata apice compressula saepeque subcanaliculato-furcata, carnoso-lenta, glabra, intus alba farcta, extus aurantia, minute denseque ubique ostiolis croceis prominulis (vix hinc inde laevia) exasperata; perithecia stromate immersa globulosa (500–600 μ dm.) dense constipata, superne ostiolo conico obtuso longiusculo (200-300 μ lg. × 50–100 μ crs.) croceo coronata; asci cylindracei (450–500 × 4 μ) fasciculati longissimi aparaphysati octospori, apice obtuse rotundati modiceque incrassato-tunicati, base breviter attenuato-pedicellati; sporidia ascorum longitudine gracillima, primo integra, dein in articulis cylindraceis (5-20 × 1 μ) hyalinis scissilia. Species *C. militaris* (L.) Lk. peraffinis sed stromatum forma atque peritheciis magis infossis satis distincta.

306. Cordiceps australis Speg. — Sacc., l. c. f. 571.

Hab. In corporibus putrescentibus *Formicarum, Lamellicornium, Curculionidum Cassidarumque* vulgata prope *Apiahy*, per ann. 1881-88 (sub n. 2335 et sine n.).

Obs. Stromata subcarnea filiformia erecta, quandoque breviuscula rigidula recta (5-10‴ lg.), quandoque elongata flexuosa subflaccidula (30–60‴ lg.) semper gracilia (0,2–0,4‴ crs.) fusco-atra v. atro-subpurpurascentia, longitudinaliter rugoso-striata (an in sicco tantum ?) glabra opaca apicem versus attenuata ac flavescenti-carnosa, abrupte in capitulo globoso v. ovato (0,5–2‴ dm.) expansa; capitula laevia carnoso-subceracea aurantia glabra acrogena solitaria, rarius pleurogena; perithecia cylindracea (300-600 × 100 μ) non v. vix ostiolato-papillata; asci cylindracei (250–300 — rarius 450– × 5–8 μ) apice glandiformes aparaphysati; sporidia filiformia, ascorum longitudine, in articulis cylindraceo-fusoideis utrinque rotundato-subtruncatis (5–15 × 1-1,5 μ) hyalinis secedentia. Species

variabilis pulcherrima stipite marasmioideo nigro apice pallescente mox dignoscenda; *C. bicephalae* Brk. peraffinis videtur.

307. Cordiceps goniophora Speg. (n. sp.)

Diag. Stromata filiformia gracillima atra simplicia v. ramulosa stipitibus ramisque ad medium abrupte noduloso-incrassatis, apice attenuatis ac capitulo minutissimo roseo-aurantio clavulato ornatis.

Hab. In corpore putrescente *Mutillae* speciei cujusdam inter muscos propre *Apiahy*, Hiem. 1881 (sine n.).

Obs. Stromata sparsa v. e base capitis toracisque nec non ex articulationibus pedum antennarumque exsurgentia setiformia (5-20''' lg. × 0,1-0,3''' crs.) castaneo-atra laevissima opaca rigida recta v. vix flexuosa, inferne in juventute saepe sordide pruinulosa, medio saepius obovato-v. obclavulato-incrassata (1''' lg. × 0,5''' crs.) simplicia v. ramulosa, apice capitulato-incrassata aurantio-rosea ; perithecia asci sporidiaque ob immaturitatem deficiunt. Species praedistincta priori peraffinis sed longe minor ac magis gracilis ; recedit etiam stipitibus subcorneis laevibus geniculato-inflatis. Crassitudines nodulorum stipitis sine ullo dubio sunt clavulae vetustae apice innovanti-proliferae.

308. Cordiceps sphyngum (Tul.) Sacc. — l. c. f. 572.

Hab. In corpore putrescente *Lepidopteri* nocturni cujusdam (*Agrotis?*) in sylvis prope *Apiahy*, Jul. 1881 (sine n.).

Obs. Specimina sterilia sed sine dubio ullo hanc speciem sistentia atque cum icone *Cl. Tulasnei* perfecte conveneentia.

309. Megalonectria pseudotrichia (Schw.) Speg. — Sacc., l. c. f. 560.

Hab. Ad corticem trunci dejecti putrescentis prope *Xiririca*, Maj. 1880 (sub n. 138).

310. Megalonectria coespitosa Speg. (n. sp.)

Diag. Perithecia coespitulos subhemisphaericos centro stilbigeros parvulos erumpenti-superficiales efformantia, globosa, sanguinea glabra; asci clavati; sporidia cylindraceo-elliptica horizontaliter 9-septata, septo altero verticali continuo divisa hyalina.

Hab. Ad corticem putrescentem arborum in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2863).

Obs. Stroma tenuissimum sub peridermio immutato latissime excurrens parum perspicuum; perithecia in acervulis erumpenti-superficialibus densiuscule sparsis subhemisphaericis (2–3''' dm.) dense botryose aggregata ac saepius 1 v. 2 stipites conidiiferos centrales cingentia, in vivo globosa (300-350 μ dm.) in sicco collabescentia sessilia testaceo-sanguinea, ostiolo vix papillulato saepe obscuriore ornata, carnosulo-membranacea, contextu parenchymatico elongato parum distincto coccineo donata, glabra laevia; asci primo e cylindraceo fusoidei apice truncati, dein e cylindraceo clavulati (90 × 20 μ) apice obtuse rotundati, tunica non v. vix incrassata, base brevissime crasseque stipitati octospori aparaphysati; sporidia recte v. oblique disticha (30–40 × 10 μ) cylindraceo-elliptica utrinque obtusiuscula recta v. leniter subcurvula, horizontaliter 9-septato-constrictula (ad medium validius), septo altero verticali continuo divisa, hyalina. Stipites conidiiferi *Stilbum fusco-cinnabarinum* Speg. sistunt.

DOTHIDEACEAE Nitz. et Fck.

311. Phyllachora apiahyna Speg. (n. sp.)

Diag. Stromata subhypophylla parvula atra nitentia; locu-

lis 4-12 globosis subprominulis; asci cylindracei octospori paraphysati; sporidia elliptica utrinque obtusissima strato muscoso crasso obovoluta hyalina.

Hab. Ad folia (lanceolata subcoriacea siccitate nigrescentia) plantae ignotae in dumetis prope *Apiahy*, Jul. 1888 (sub n. 2565).

Obs. Maculae nullae v. epiphyllae fuscescentes indeterminatae vix perspicuae; stromata sparsa innata utrinque in folio manifesta irregulariter suborbicularia (1-2''' dm.) ad epiphyllum submaculaeformia determinata atra plana laevia v. minute punctulato-impressa non v. vix subnitentia, ad hypophyllum subindeterminata v. rugula epidermica cincta, 2-6 hemisphaerico-colliculosa laevissima nitentia (fere e loculis prominulis subconfluentibusque efformata); loculi parenchymate vix mutato immersi globulosi (200-300 μ dm.) albo-farcti; asci primo subfusoideo-cylindracei dein cylindraceo-subtorulosi (90-100 × 12-14 μ) apice obtuse rotundati base breviter crasseque stipitati octospori, paraphysibus filiformibus paucis obvallati; sporidia transverse v. oblique monosticha, rarius recta subdisticha, elliptica v. saepius rhomboideo v. biconico-elliptica (14-15 × 7 μ) granuloso-farcta, hyalina, strato mucoso utrinque attenuato ac subevanescente, medio incrassato, concolore cincta.

312. Phyllachora annuliformis Speg. (n. sp.)

Diag. Stromata hypophylla saepius annulato-expansa, parce prominula atra opaca laevia; loculi numerosissimi constipati non prominuli; sporidia ellipsoidea hyalina.

Hab. Ad folia viva *Laurineae* cujusdam in sylvis prope *Apiahy*, Dec. 1882 (sub n. 2926).

Obs. Maculae nullae v. epiphyllae subfuscescentes indeterminatae vix perspicuae; stromata hypophylla sparsa determinata annuliformi-orbicularia (3-6''' dm.) centroque tandem libero (1-3''' dm.) non evoluta, ambitu plus mi-

nusve sinuosulo-repanda, parum dilatata (1''' lt.) primo planissima dein prominula, atra glabra, laevia (v. vix sub lente valida minutissime punctulato-asperula) opaca; loculi numerosissime densissimeque constipati, globulosi 100-150 μ dm.) e mutua pressione angulosi, ostiolo non v. vix papillulato coronati; asci non visi; sporidia ellipsoidea (14 × 8 μ) minute biguttulata, hyalina laevia. Species nobiliuscula sed substerilis; stromata per aetatem cum parte adnata matricis decidua ac folium hinc inde orbiculari-perforatum relinquentia.

313. Phyllachora? Arechavaletae Speg. (n. sp.)

Diag. Stromata hypophylla orbicularia abrupte pulvinulato-applanata, laevia sordide fusco-v. castaneo-atra subnitentia; loculi periphaerici immersi globulosi; asci obovato-cylindracei aparaphysati; sporidia ovoidea hyalina.

Hab. Ad folia coriacea plantae ignotae prope *Itabirá do Campo* secus *Rio das Velhas*, Sept. 1887 (leg. Cl. I. Arechavaleta).

Obs. Stromata densiuscule sparsa irregulariter suborbicularia (1-2''' dm.) utrinque manifesta, ad epiphyllum prominula determinata sordide obscureque fusca, centro saepius rugoso-v. erosulo-depressa atque subcinerascentia, ad hypophyllum crassiuscule pulvinata (0,5-1''' crs.) base coarctatula, margine integra obtusa superne applanata castaneo-atra, glabra laevissima (sub lente circinatim laxe papillulosa) nitentia; loculi in stromatibus dense constipati subglobosi minuti (120-150 μ), ostiolo parvulo vix papillulato-exerto donati; asci obclavulato-cylindracei, apice subtruncati deorsum modice attenuati brevissimeque pedicellati (100-110 × 10-14 μ) octospori aparaphysati; sporidia oblique mono-v. di-sticha ovoidea (15-18 × 5-6 μ) utrinque obtusa continua grosse 1-guttulata v. saepe diblasta (an demum 1-septata?) hyalina. Species pulchella ob stromata fere superficialia ac spo-

ridia saepe diblasta a genere nonnihil desciscens.

314. Phyllachora biareolata Speg. — Fung. guar. pug. II, n. 99.

Hab. Ad folia emortua *Myrtaceae* v. *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, Hiem. 1888 (sub n. 2538).

315. Phyllachora brasiliensis Speg. — Sacc., l. c. f. 599.

Hab. Ad folia viva *Myrtaceae* v. *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1488-2859).

Obs. Specimina nunc perplurima hujus speciei inspecta, descriptio primitiva (cnft. l. c.) nonnihil modificanda. Maculae nullae; stromata ad hypophyllum foveola impressa manifesta, ad epiphyllum innato-superficialia pulvinulata irregulariter ellipsoidea v. sublinearia (1-2''' lg. × 0,5-1''' lt.) nervationibus secundariis pinnatis parallela, densiuscule sparsa determinata, aterrima nitentissima dense colliculoso-granulata, laevissima, per aetatem irregulariter rimosa; loculi stromate immersi globulosi (150-200 μ dm.) prominuli albo-farcti, ostiolo impresso minutissimo perforati; asci e clavato v. subfusoideo cylindracei (80 × 18 μ) apice obtuse rotundati, base brevissíme crasseque pedicellati octospori aparaphysati; sporidia oblique monosticha rarissime recte disticha, ellipsoidea v. lenissime subovoideo-elliptica (14-16 × 10 μ), continua eguttulata, primo strato diffluente mucoso concolore cincta hyalina, dein nuda obsoletissime fumosa. Species *Ph. astronii* Speg. nec non *Ph. tropicali* Speg. affinis, ab utraque tamen satis distincta.

316. Phyllachora gibbosa Wint. — Sacc., Syll. fung. add. I-IV, p. 226.

Hab. Ad folia viva *Pleromatis* specierum plurimarum in

campis prope *Apiahy*, Aut. 1888 (sub n. 2479-2714-2756).

Obs. Maculae nullae; stromata hypophylla sparsa innato-superficialia aterrima opaca glabra hemisphaerica gibbuloso-tuberculosa (0,5-1''' dm.), 3-8-locularia; loculi stromate immersi vix prominuli e mutua pressione difformes (250-300 μ dm.) saepe confluentes; asci cylindracei apice plus minusve rotundati deorsum longiuscule attenuato-pedicellati (150-200 μ lg. tot. — p. sp. 100-120 × 9-14 — ped. 40-60 × 5 μ) densiuscule pseudoparaphysati octospori; sporidia cylindraceo-elliptica utrinque subtruncato-rotundata magnitudine subludentia (quandoque 12-14 × 6-7 μ — quandoque 16-18 × 8-9 μ) hyalina. *Ph. peribebuyensi* Speg. affinis sed satis tamen distincta.

317. Phyllachora ? gracillima Speg. (n. sp.)

Diag. Stromata minutissima innata plana atra opaca; loculi minuti constipati; asci subfusoideo-clavulati paraphysati; sporidia oblanceolata inferne acuta hyalina.

Hab. Ad folia culmosque *Isolepidis capillaris* in uliginosis prope *Apiahy*, Aut. 1888 (sub n. 2620).

Obs. Maculae nullae v. vix pallescentes, indeterminatae; stromata elliptica minuta (200-300 μ dm.) elliptica v. linearia saepe confluentia ac totum folium ambienta, innata non v. vix prominula atra glabra opaca laevia, contextu indistincto; loculi immersi constipati, saepius e mutua pressione difformes (90-100 μ dm.) albo-farcti; asci e clavulato v. fusoideo cylindracei (50-60 × 10 μ) antice subtruncato-rotundati, base brevissime attenuato-pedicellati, paraphysibus parcis filiformibus longioribus immixti octospori; sporidia obverse lanceolata (15-16 × 5 μ) superne rotundata, inferne attenuato-acutata, continua v. saepe 2-4-blasta (an demum 1-septata?) hyalina.

318. Phyllachora dispersa Speg. (n. sp.)

Diag. Stromata 1-3-locularia minuta amphigena sparsa atra nitentia; asci subcylindracei dense paraphysati; sporidia elliptica hyalina.

Hab. Ad folia viva *Hireae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2576-2578).

Obs. Maculae nullae; stromata sparsa amphigena, ad epiphyllum applanata, ad hypophyllum 1-3-colliculoso-prominula, innata minuta (0,5-1‴ dm.), atra glabra laevissima nitentia; loculi globosi (200-250 μ dm.) solitarii v. pauci in quoque stromate, parum prominuli albo-farcti; asci cylindracei v. subfusoidei (90-110 × 10-14 μ) apice truncato-rotundati crassiusculeque tunicati, deorsum breviter attenuato-pedicellati, non v. parcissime paraphysati; sporidia recte v. oblique monosticha elliptica v. subcylindraceo-ellipsoidea (12 × 5 μ) utrinque obtusiuscule rotundata hyalina continua, in prima aetate saepius tunica concolore mucosa tenuissima obovoluta.

319. Phyllachora Puiggarii Speg. (n. sp.)

Diag. Stromata epiphylla hemisphaerico-pulvinulata minuta atra nitentia; loculi 1-5 aggregati globoso-difformes; asci clavato-saccati subaparaphsyati; sporidia elliptica saepius muco obovoluta.

Hab. Ad folia (parvula ovata imparipinnata) viva *Leguminosae* arboreae cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2770).

Obs. Maculae nullae v. vix pallescentes indeterminatae; stromata hemisphaerica v. obtuse subconoidea orbicularia 0,5-1‴ dm.) epiphylla, ad hypophyllum non manifesta, sparsa innato-superficialia atra glaberrima laevissima nitentissima, subcarbonacea, contextu indistincto; loculi saepius solitarii, rarius 2-5 (quorum 1 v. 2 fertiles, caeteri abortivi) aggregati in quoque stromate, e mutua pressione globoso-difformes (120-150 μ dm.); asci primo cylindracei dein saccato-clavati (80-100 × 15-25 μ) apice

obtusi deorsum attenuati modiceque stipitati, non v. parcissime paraphysati octospori; sporidia recte oblique v. transverse monosticha, rarius disticha, late ellipsoidea (16–18 × 8–9 μ) utrinque obtusissime rotundata, rarissime subrhomboidea v. subinaequilateralia, hyalina, primo granuloso-farcta, strato mucoso crassiusculo concolore vestita, dein nuda.

320. Phyllachora pyrifera Speg. — Sacc., Syll. fung. add. I–IV, f. 225.

Hab. Ad folia viva *Compositae* arborescentis cujusdam in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2760).

Obs. Specimina brasiliensia notis externis perfecte cum typo congruentia, vix nonnullis fructificationis deflectentia; asci cylindracei antice obtuse rotundati deorsum breve crasseque stipitati (80–100 × 12–15 μ) paraphysati; sporidia obverse pyriformia (18–19 × 9–10 μ) saepe inferne subcoarctata (an demum spurie 1-septata et tandem *Munkiella?*) hyalina.

321. Phyllachora selenospora Speg. (n. sp.)

Diag. Stromata amphigena orbiculari-pulvinata atra nitententia, 4–12-loculigera; asci clavati apice conoideo-acuminati paraphysati; sporidia fusoideo-clavulata falcata hyalina.

Hab. Ad folia viva *Zanthoxyleae* cujusdam in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2566).

Obs. Maculae nullae; stromata discoideo-pulvinulata (1,5–2‴ dm.) innato-superficialia, determinata amphigena, sed ex uno latere tantum manifesta, atra glabra nitentia, quandoque laevia, vix centro (sub lente) minute tuberculata, quandoque (rarius) tota subgranulosa; loculi 6–12 in quoque stromate subradiantes e mutua pressione compressi (150–200 μ dm.) ostiolis minutis ad centrum stromatis vergentibus perforati; asci clavulati (90–100 × 14–

20 μ) antice breviter conico-cuneati acutissimi, postice attenuati modice pedicellati octospori parcissime paraphysati; sporidia recte disticha subfusoideo-clavulata (16-20 × 6 μ) utrinque acuta, plus minusve lunato-curvula continua hyalina.

322. Phyllachora sordida Speg. (n. sp.)

Diag. Stromata subhypophylla minuta saepe confluentia innata subapplanata fusco-atra opaca, paucilocularia; asci cylindracei paraphysati; sporidia elliptica utrinque acutiuscula subinaequilateralia hyalina.

Hab. Ad folia viva *Tabebuiae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1583).

Obs. Maculae pallescentes indeterminatae majusculae parum manifestae; stromata hypophylla suborbicularia (0,5-2''' dm.), hinc inde 2-5 aggregato-confluentia, non v. vix prominula fusco-atra laevia glabra opaca, ad epiphyllum punctiformia minutissima non confluentia atra; loculi in quoque stromate 1-3-constipati difformes (120-180 μ dm.) albo-farcti, ostiolo minuto vix perspicuo, ad epiphyllum aperto, donati; asci cylindracei (120-130 × 10 12 μ) apice rotundati base modice attenuato-pedicellati octospori, densiuscule paraphysati; sporidia oblique monosticha elliptica v. subnavicularia (18-20 × 7-8 μ) utrinque acutiuscula hyalina.

323. Phyllachora subrepens Speg. (n. sp.)

Diag. Stromata epiphylla minuta subramosula saepius circinata ac confluentia atra nitentia, paucilocularia; asci subclavulati paraphysati; sporidia ellipsoidea hyalina.

Hab. Ad folia viva *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2862).

Obs. Maculae pallescentes indeterminatae parum perspicuae; stromata epi-(rarissime hypo-) phylla, subconoideo-prominula minuta (0,5-1,5''' dm.) saepius aggregata ac con-

fluentia, in nervationibus circumstantibus angulose excurrentia atra laevia glabra nitentia, in maculis irregulariter subcircinato-repentia; loculi in quoque stromate 1 v. 3, globulosi v. compressi (150–200 μ dm.) albo-farcti; asci cylindraceo-clavulati, apice rotundati v. subtruncati, deorsum breviter attenuato-pedicellati (85–90 × 12–16 μ) densiuscule paraphysati octospori; sporidia transverse v. oblique monosticha ellipsoidea (16–18 × 8-9 μ) continua non v. 1-guttulata hyalina. Species habitu *Ph. repenti* (Cd.) Sacc. simillima, sed cum speciminibus nicaraguensibus comparata, satis distincta videtur.

324. Phyllachora trivialis Speg. (n. sp.)

Diag. Stromata innata applanata orbicularia minuta, areola albescente cincta, atra opaca paucilocularia; asci obclavulati parce paraphysati; sporidia elliptico-obovata hyalina.

Hab. Ad folia viva *Asclepiadeae* cujusdam scandentis (an *Jussieae?*) in dumetis prope *Apiahy*, Aut. 1881 (sub n. 1564).

Obs. Stromata irregulariter orbicularia (1–2''' dm.) innata, utrinque in folio manifesta, ad epiphyllum atra glabra laevia v. vix subcolliculosa, irregularia fusca exareolata, contextu subcarbonaceo indistincto; loculi 3–8 in quoque stromate constipati subglobosi (250–300 μ dm.) albo-farcti; asci obclavulati apice subrotundati v. truncati base cuneati brevissime crassiusculeque stipitati (140–150 × 10–12 μ), paraphysibus paucis filiformibus longioribus obvallati, octospori; sporidia elliptico-obovata (16–20 × 5-7 μ) utrinque rotundato-acutiuscula, recta v. subinaequilateralia nubilosa hyalina.

325. Phyllachora vinosa Speg. (n. sp.)

Diag. Maculae epiphyllae majusculae vinosae; stromata laxe aggregata epiphylla minuta saepe confluentia atra subni-

tentia, paucilocularia ; asci cylindraceo-torulosi ; sporidia ellipsoidea muco obovoluta.

Hab. Ad folia viva *Fici* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1676).

Obs. Maculae ad epiphyllum suborbiculares subindeterminatae majusculae (10–15''' dm.) saepe confluentes violascentes v. vinosae ad hypophyllum irregulares indeterminatae fuscescentes, rarissime deficientes; stromata in maculis subcircinata v. densiuscule sparsa ad epi–(rarius etiam ad hypo–) phyllum perspicua, innata, subhemisphaerico-prominula irregulariter suborbicularia (0,5–1''' dm.) saepeque confluentia atra laevia glabra nitentia, contextu opaco atro indistincto; loculi 1–3 in quoque stromate, 1 tantum saepius fertili, globulosi (150–200 μ dm.) albofarcti ; asci cylindracei v. clavulati (90–110 × 15–25 μ) dein torulosi ac diffluentes, muco immersi, antice obtusi postice breviter crasseque attenuato-pedicellati, octospori; sporidia transverse v. oblique monosticha elliptica utrinque obtusa (16–18 × 8–9 μ) nubilosa hyalina, tunica mucosa tenuissima concolore per aetatem evanescente tecta.

326. Munkiella inaequalis (Wint.) Speg. — Wint., Hedw. 1885 f. 261 (sub *Lizonia*).

Hab. Ad folia viva *Mikaniae* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2700).

Obs. Stromata innato-prominula, loculis subexertis, in vivo hemisphaericis in sicco subcollabescentibus densissime constipatis confluentibusque tecta ; asci recte v. obverse clavati (70-80 × 15-18 μ) apice obtusissime rotundati crasseque tunicati, deorsum cuneati breviter crasseque stipitati, octospori aparaphysati ; sporidia disticha elliptico-subfusoidea (18 × 7 μ) utrinque acuta, loculo infero minutissimo conoideo apiculiformi, hyalina.

327. Dothidella pteridophila Speg. (n. sp.)

Diag. Stromata amphigena innato-prominula minuta atra; loculi pusilli dense constipati albo-farcti; asci obclavulati aparaphysati; sporidia elliptico-elongata, medio 1-septata hyalina.

Hab. Ad folia viva v. languida *Pteridis* speciei cujusdam in uliginosis prope *Apiahy*, Aut. 1888 (sub n. 2372).

Obs. Maculae nullae v. totum folium superne fuscescens inferne e cinereo v. glauco purpurascens; stromata epi-v. hypo-phylla innato-superficialia prominula irregulariter e discoideo hemisphaerica (0,5-1''' dm.) atra carbonacea, non v. vix subverruculosa; loculi in stromate dense constipati e mutua pressione subdifformes minuti (90-120 μ dm.) albo-farcti; asci obclavulati (50-60 × 12-14 μ) sursum rotundati crassiuscule tunicati 1-foveolati, deorsum abruptiuscule pedicello crasso brevissimoque suffulti, octospori aparaphysati; sporidia elliptico-elongata v. e cylindraceo clavulata (16-18 × 4-5 μ) utrinque obtusiuscula medio 1-septata non v. vix constricta recta v. leniter inaequilateralia hyalina. Species *D. nerviseqniae* (Brk.) Sacc. affinis sed satis riteque dístincta.

328. Scirrhia leptosperma Speg. (n. sp.)

Diag. Stromata amphigena linearia erumpentia fuscescentia vix perspicua; loculi monostichi globulosi; asci obclavulati aparaphysati; sporidia lineari-clavulata hyalina.

Hab. Ad folia viva *Graminaceae* majoris cujusdam in campis prope *Apiahy*, Aut. 1888 (sub n. 2850).

Obs. Maculae nullae v. amphigenae elliptico-lineares indeterminatae e purpurascente fuscescentes; stromata gracillima linearia (1-3''' lg. × 150-200 μ lt.) sparsa, per epidermiden longítudinaliter fissam erumpentia, non v. vix prominula fusca glabra laevia v. vix subtuberculosa; loculi stromate immersi, monostiche seriati, constipati e globoso difformes (100-120 μ dm.) albo-farcti; asci obclavulati (50 × 16 μ) apice plus minusve late v. subtruncate

rotundati crassiusculeque tunicati, pedicello crasso brevissimoque suffulti, octospori aparaphysati; sporidia disticha lineari-clavulata (20 × 4 μ) superne obtusa inferne acutiuscule rotundata, medio 1-septata lenissime constricta recta hyalina. Species pusilla *S. infuscatae* Wint., ut videtur, affinis.

329. Roussoella subcoccodes Speg. (n. sp.)

Diag. Stromata hypophylla sparsa v. subcircinantia hemisphaerico-subglobosa minuta innato-superficialia fusco-atra paucilocularia; asci cylindracei v. clavulati octospori mucoso-diffluentes; sporidia cylindraceo-obovata excentrice 1-septata, utrinque subtruncata, fuliginea.

Hab. Ad folia (subcoriacea elliptica glabra) viva *Leguminosae* scandentis cujusdam in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2841).

Obs. Maculae nullae v. indeterminatae pallescentes; stromata sparsa v. gregaria atque saepe subcircinata, rarius confluentia hemisphaerica v. saepius globulosa (0,5–1‴ dm. et crs.) matrici arcte adnata, fusco-atra v. atra glabra ruguloso-subtuberculata subcarbonacea contextu indistincto; loculi 2 v. 5 in quoque stromate constipati globulosi (120-150 μ dm.) ostiolo non v. vix in stromatis superficie papillato-prominulo donati, fusco-farcti; asci cylindracei v. clavulati (p. sp. 50-60 × 7–8 μ) apice obtusi base attenuati mox diffluentes octospori; sporidia oblique mono-v. recte di-sticha obovata, utrinque truncato-rotundata (10-12 × 4–5 μ), septo excentrico divisa, non v. vix constricta, loculo supero majore 2-guttulato, infero duplo minore 1-guttulato, fuliginea. Species cum *Phyllachora coccodi* (Lév.) Speg. (in Sacc., Syll. pyr. vol. I, f. 446 sub *Physalospora*) comparata habitu simillima, fructificationis tamen notis secundum auctoris diagnosin (specimen meum micaraguense sterile) longe recedens; an ejusdem status adultus?

Dothidea Munkii Speg. in Fung. guar. pug. I, n. 289, sub hoc genere etiam militat, et *Roussoella Munkii* Speg. vocanda!

330. Montagnella ? Puiggarii Speg. (n. sp.)

Diag. Stromata amphigena elliptica minutissima atra laevia opaca; loculi pusilli dense constipati; asci cylindracei v. clavulati aparaphysati; sporidia fusoidea utrinque obtusiuscula 3-septata hyalina.

Hab. Ad folia viva *Oplismeni* speciei cujusdam in sylvaticis prope *Apiahy*, Apr. 1881 (sub n. 2870).

Obs. Maculae nullae v. totum folium sordide fuscescenti-arescens; stromata sparsa elliptica v. elliptico-elongata (0,7-1,3‴) utrinque prominula, obtusa, longitudinalia atra glabra laevia opaca, intus albo-farcta; loculi numerosi globoso-angulosi (90-120 μ dm.) dense constipati saepeque confluentes, albo-farcti; asci cylindracei v. subclavulati (60-70 × 8-10 μ) apice obtuse rotundati base subattenuati brevissime crasseque stipitati octospori aparaphysati; sporidia recte disticha fusoidea (leptosphaerioidea!) utrinque obtusiuscule acutata, recta v. saepius leniter inaequilateralia, primo 4-guttulata dein 4-blasta postremo 3-septata, non constricta, loculo tertio supero crassiore hyalina. *Phyllachora graminis* (Prs.) Fck. var. *tupi* Speg. f. *oplismeni* (in Fung. guar. pug. I, n. 268) facillime huc ducenda, ut status hujusdem immaturus.

331. Ophiodothis? leptospora Speg. (n. sp.)

Diag. Stromata hypophylla innata vix prominula minuta glaucescentia, areola pallescenti-alba stricta cincta, paucilocularia; asci ellipsoidei v. obovati aparaphysati; sporidia cylindracea utrinque attenuato-rotundata continua.

Hab. Ad folia coriacea viva plantae ignotae in sylvis prope *Apiahy*, Aut. 1880 (sub n. 2564).

Obs. Stromata innata sparsa v. hinc inde subaggregata, ra–

rius confluentia minuta (0,5''' dm.) vix ad epiphyllum prominulo-perspicua, cinerascenti-v. glaucescenti-atra, areola pallescenti-alba stricta indeterminata cincta, glabra laevia subcarbonacea, contextu indistincto atro; loculi 2-5 in quoque stromate constipati e globuloso-angulosi (120-150 μ dm.), stromate immersi non prominuli; asci ovati v. ellipsoidei (50-60 × 10-22 μ) sursum attenuato-rotundati, tunica incrassata tenuiter longeque foveolato-perforata donati, deorsum cuneato-rotundati, abrupte brevissimeque coarctato-pedicellati octospori aparaphysati; sporidia conglobata cylindracea utrinque leniter attenuata ac rotundata (40 × 4-5 μ) recta v. curvula continua eguttulata hyalina.

PHYMATOSPHAERIACEAE Speg.

Familiola singularis in tropicis praecipue vigens; genera *Eurytheca* DSeyn. et facile *Cookella* Sacc. huc ducenda.

MICROPHYMA Speg. (n. gen.)

Char. Stromata superficialia atra intus dense loculigera, loculis monoascis; asci octospori; sporidia didyma hyalina.

332. MICROPHYMA PUIGGARII Speg. (n. sp.)

Diag. Stromata superficialia punctiformia globoso-depressa atra; asci pyriformes; sporidia clavulata.

Hab. Ad folia coriacea plantae ignotae in sylvaticis prope *Apiahy*, Aut. 1888 (sub n. 2773).

Obs. Stromata sparsa superficialia in vivo globosa (500-600 μ dm.) in sicco lenticulari-depressa, extus atra laevia glabra, cortice tenui tecta, intus alba ex hyphis hyalinis tortuoso-intestiniformibus (1-2 μ crs.) longiusculis ra-

mulosis apicibus obtusis dense intricatis farcta; asci pulpa immersi densiuscule sparsi pyriformes (30 × 13-15 μ) apice obtusissime crasseque tunicati, deorsum umbonati v. subcuneato-obtusati, octospori; sporidia conglobata obovata v. clavulata (10-13 × 3-4 μ) superne rotundata inferne plus minusve acutata v. obtusata, medio 1-septata constrictula hyalina.

Huc etiam *Microphyma ilicis* (Ell.) Speg. in Ell. Nort.-Am. fung. 1883 f. 319 (sub *Asterina*).

333. Phymatosphaera brasiliensis Speg. (n. sp.)

Diag. Stromata subpezizoidea repandula parvula superficialia atra; loculi densissime constipati; asci obovati; sporidia elliptica horizontaliter 7-septata, septo altero verticali interrupto divisa, hyalina.

Hab. Ad corticem languentem arborum in sylvis prope *Apiahy*, Aest. 1881 (sub n. 1678).

Obs. Stromata e patellari lenticularia (1-3‴ dm.) sessilia v. substipitata, sparsa v. saepius hinc inde dense 3-8-aggregata saepeque subconfluentia glabra laevia v. leniter subtuberculosa extus atra cortice tenui subcarbonaceo subimperspicue parenchymatico atro tecta, intus carnosula olivascentia dense celluloso-ascigera; asci subsphaeroidei v. obovati (50-60 × 35-40 μ) crasse tunicati octospori, dense congesti, substantia stromatis vix separati; sporidia conglobata elliptica v. ellipsoideo-obovata (24-30 × 12-14 μ) utrinque obtusiuscula recta v. leniter curvula, horizontaliter 5-7-septato-constrictula, ad septum validius, septo altero interrupto verticali divisa hyalina. Species *Phymatosphaerae yunnanensi* (Pat.) Speg. (in Soc. Bot. Franc. 1886 f. 1555 sub *Pyrenotheca*) peraffinis, sed certe satis riteque distincta.

MICROTHYRIACEAE Sacc.

334. Microthyrium? circinans Speg. — Sacc., l. c. f. 665.
Hab. Ad folia viva coriacea plantae ignotae in nemorosis prope *Apiahy*, Maj. 1881 (sub n. 1502).

335. Microthyrium melastomacearum Speg. (n. sp.)
Diag. Perithecia hypophylla dense constipata plagulas orbiculares atras granulosas efficientia, scutato-dimidiata, minuta ostiolata membranacea; asci cylindraceo-clavulati aparaphysati; sporidia clavulata didyma hyalina.
Hab. Ad folia viva *Melastomaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1881 (sine n.).
Obs. Maculae nullae v. amphigenae indeterminatae pallescentes vix perspicuae; perithecia hypophylla scutata (150–250 μ dm.) atra membranacea, contextu minute subprosenchymatico-celluloso fumoso atro donata, ostiolo latiusculo (15–25 μ dm.) pertusa, glabra laevia densissime constipata, subconfluentia, plagulas subcrustaceas subgranulosas atras opacas suborbiculares (3-10''' dm.) ambitu sinuosulo-repandas efficientia; asci cylindracei v. cylindraceo-obclavati (60-80 × 10 μ) antice obtusissime v. subtruncate rotundati, crasse tunicati 1-foveolatique, deorsum e cuneato rotundati crasseque brevissimeque stipitati octospori aparaphysati; sporidia recte di-v. tristicha clavulata (15–16 × 4–5 μ) medio 1-septato-constricta, loculo supero obtuso, infero acuto, hyalina. Subiculum v. hypothallum plane deficiens.

336. Microthyrium virescens Speg. (n. sp.)
Diag. Maculae arescenti-pallescentes orbiculares mediocres; perithecia hypophylla laxe gregaria minuta ostiolata mem-

branacea; asci ovati aparaphysati; sporidia obovata didyma hyalina.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2478).

Obs. Maculae amphigenae orbiculares (5–10''' dm.) determinatae arescentes superne cinerascentes inferne pallide pallescentes saepe confluenti-difformes; perithecia hypophylla maculis insidentia sparsa v. densiuscule aggregata dimidiato-scutata (80–100 μ dm.) fusco-olivacea glabra tenui membranacea contextu centro subparenchymatico elongato-radiante margine prosenchymatico integro fulvo-virescente donata, ostiolo latiusculo (20 μ dm.) impresso pertusa; asci ovati (35-40 × 20-25 μ) apice crasse tunicati octospori aparaphysati; sporidia elliptico-obovata (14-15 × 5-6 μ) utrinque obtusiuscula, medio 1-septata non v. vix constricta hyalina.

337. Clipeolum atro-areolatum Speg. — Sacc., l. c. f. 667.

Hab. Ad folia coriacea dejecta in umbrosis prope *Apiahy*, Aut. 1881 (sub n. 1446).

338. Clipeolum brasiliense Speg. — Sacc., l. c. f. 667.

Hab. Ad folia coriacea dejecta in umbrosis prope *Apiahy*, Aut. 1881 (sub n. 1446).

339. Clipeolum dothideoide Speg. (n. sp.)

Diag. Perithecia epiphylla sparsa scutato-adnata minuta atra nitentia saepius areola fusco-purpurascente cincta; asci cylindracei aparaphysati; sporidia oblique monosticha cylindraceo-elliptica, hyalina.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2771).

Obs. Perithecia epiphylla dense sparsa v. subgregaria hemisphaerica v. conoidea (250–350 μ dm.) scutato-dimidiatata superficialia atra laevia glabra nitentia subcarbo-

nacea, contextu opaco indistincto, 1-locularia astoma, matrici arcte adnata, areola indeterminata stricta fusco-purpurascente saepius cincta; asci e cylindraceo subfusoidei v. leniter obclavulati (75-80 × 8-10 μ) apice obtuse rotundati, tunica vix incrassatula, deorsum cuneati brevissimeque pedicellati octospori aparaphysati; sporidia oblique monosticha v. vix pauca hinc inde recte disticha, elliptico-cylindracea (15 × 5 μ) utrinque obtusiuscula recta v. leniter inaequilateralia, primo continua dein diblasta (postremo 1-septata?). Species pulchella habitu nec non omnium partium fabrica *dothideacea*, sed sine ullo dubio peritheciis non innatis a matrice heterogeneis atque dimidiato-scutatis donata et tandem *microthyriacea!*

340. Clipeolum minutissimum Speg. — Sacc., l. c. f. 667.
Hab. Ad epiphyllum *Laurineae* cujusdam in nemorosis prope *Apiahy*, Jun. 1881 (sub n. 1507).

341. Puiggariella apiahyna Speg. — Sacc., l. c. f. 478.
Hab. Vulgata ad folia coriacea putrescentia v. languida Filicum arborumque in sylvis prope *Apiahy*, per ann. 1881-88 (sub 1446 et sine n.).
Obs. Genus pulchellum et species vulgatissima videtur sed saepe sterilis; adsunt quoque specimina speciei cujusdam minoris alba pilosula sed natura lichenina gonidiis minutis (heterogeneis?) praedita sed adhuc semper sterilia inventa.

Trichothyrium Speg. (n. gen.)
Char. Mycelium laxum glabrum atrum ex hyphis parce ramosis utrinque latiuscule appendiculato-membranaceis atque applanato vittaeformibus efformatum; perithecia superficialia subieulo insidentia v. cincta dimidiato-scu-

tata contextu prosenchymatico-radiante atro; asci octospori; sporidia didyma hyalina.

342. TRICHOTHYRIUM SARCINIFERUM Speg. (n. sp.)

Diag. Hyphae myceliales hyphopodiis suboppositis obovatis pedicellatis, hinc inde ad marginem membranae appendicularis conidia cruciatim tetramera sarciniformia asperula gerentes; perithecia sparsa v. hinc inde laxe aggregata dimidiato-scutata minuta ostiolata glabra; asci obclavati aparaphysati; sporidia obclavata 1-septata, loculo supero minore hyalina.

Hab. Ad folia coriacea *Myrtaceae* cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1626).

Obs. Maculae nullae; mycelium plagulas latiusculas irregulares (5-20''' dm.) epiphyllas sparsas atras laxissime grosseque fibroso-reticulatas, matrici arctiuscule adnatas efformans, ex hyphis rectiusculis subcylindraceis (10 μ crs.) fuligineis septulatis subopacis saepius opposite laxeque ramosis, hyphopodiis e cylindraceo ovoideis (20 × 10 μ) vix 1-cellulari-pedicellatis 1-guttulatis oppositis densiuscule ornatis, utrinque membranaceo-expansis, membrana hyphopodia superante (10-12 μ lt.) tenuiter prosenchymatico-radiante fusca pellucida margine sinuoso-repanda; conidia in sinubus membranae hypharum solitaria breviter graciliterque stipitata subcuboidea (20 × 15 μ) 4-cellularia (cellulis subglobosis dense minuteque verruculosis fuligineis pellucidis); perithecia sparsa v. saepius in axilla ramulorum subiculi sparsa, dimidiato-scutata (120-200 μ dm.) membranaceo-coriacella, in vivo subhemisphaerica in sicco subcollabescentia, ostiolo latiusculo (20 μ dm.) fimbriatulo perforata, atra, glabra laevia, contextu prosenchymatico-radiante densiuscule septulato, ad marginem integra v. vix subrepanda; asci ex ovoideo obclavulati (45-56 × 12-18 μ) antice rotundati crasseque tunicati, postice rotundati brevissime cras-

seque pedicellati octospori aparaphysati; sporidia di-v. tri-sticha clavulata (20 × 5 μ) excentrice 1-septata, non v. vix constrictula, loculo supero minore obtuse subhemisphaerico v. ovato 1-guttulato, infero longiore conoideo obtusiuscule acutato 2-guttulato (an postremo 1-septato?) hyalina. An huc *Micropeltis asterophora* B. et Br.?

343. Trichothyrium? serratum Speg. (n. sp.)

Diag. Hyphae myceliales hyphopodiís ac conidiis destitutae; perithecia sparsa v. hinc inde laxe aggregata dimidiato-scutata ostiolata *bitunicata;* asci ovati, aparaphysati; sporidia elliptico-ovata loculis subaequalibus, hyalina.

Hab. Ad folia viva *Convolvulaceae?* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2772).

Obs. Maculae nullae v. vix pallescentes indeterminatae; mycelium plagulas latiusculas irregulares (2-15''' dm.) epi-(rarius hypo-) phyllas sparsas v. confluentes densiuscule fibroso-reticulatas v. subcrustaceas matrici minute reticulatim ruguloso-bullosae arcte adnatas efformans, ex hyphis rectíusculis subcylindraceis crassis (10-15 μ crs.) fuligineis opacis alterne v. opposite ramosis hyphopodiis destitutis, utrinque membranaceo-expansis, membrana latiuscula (10-20 μ lt.) prosenchymatico-radiante pellucida fusca obtuse irregulariterque serrato-lobata compositum; perithecia parsa v. hinc inde in mycelii centro gregaria dimidiato-scutata (100-120 μ dm.) latiuscule ostiolato-perforata (10-20 μ dm.) coriacella, e *duobus membranis composita,* supera v. externa atra opaca contextu indistincto fragillima, interna tenui subflaccida pellucida contextu prosenchymatico-radiante dense septulato olivacea; asci ovati (30-35 × 14-16 μ) apice obtusi base abrupte minuteque pedicellati octospori aparaphysati; sporidia di-v. tri-sticha elliptico-ovata (14 × 5 μ), 1-septata parce constricta, loculo supero ovato obtusiusculo, infero vix longiore subconoideo, hyalina. Hyphae hujus speciei

Cacteae e genere *Epiphyllo* simillimae. An generis novi typus ob perithecia bitunicata?

Breffeldiella Speg. (n. gen.)

Char. Perithecia dimidiato-scutata mytiliformia, postice loricato-confluentia, ostiolo rotundo v. subrimoso, contextu prosenchymatico-radiante atro donata; asci octospori; sporidia 1-septata hyalina.

Genus pulchellum inter *Hemhysteriaceas* et *Microthyriaceas* medium, Cl. O. Breffeld botanicae mycologiaeque meritissimo dicatum.

344. Breffeldiella brasiliensis Speg. (n. sp.)

Diag. Perithecia obovato-spathulata v. mytiliformia postice lenissime imbricato-confluentia minuta, maculas crustaceas parvulas atras superficiales difformes efficientia; asci elliptici aparaphysati; sporidia didyma hyalina (an semper?).

Hab. Ad folia viva *Bambusaceae* cujusdam in uliginosis prope *Apiahy*, Aut. 1888 (sub n. 2356).

Obs. Maculae nullae; perithecia mytiloideo-spathulata (120-130 μ lg. × 60-80 μ lt. maj.) inter se postice plus minusve cuneato-confluentia leniter fere loricato-imbricata, plagulas irregulariter suborbiculares minutas (0,5-1''' dm.) rarius sublineares, atras crustaceo-rigidulas facile a matrice secedentes efficientia, tenui membranacea, contextu longitudinaliter fibroso-radiante septulato olivaceo donata, ostiolo minuto excentrico postico rotundo v. subrimoso plus minusve perspicuo dehiscentia margine integra; asci elliptici (35 × 12-14 μ) antice obtusi postice attenuati, breviter pedicellati octospori aparaphysati; sporidia elliptica v. elliptico-obovata (12 × 4 μ) medio 1-septata lenissime constrictula recta v. subinaequilateralia, loculo supero non v. vix majore obtusioreque, hyalina; an demum 3-septata ac fusca?

345. Polystomella pulcherrima Speg. — Fung. guar. pug. II, n. 137.

Hab. Ad folia viva *Rubiaceae* herbaceae cujusdam in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 2704-2849).

Obs. Stromata epiphylla sparsa v. gregaria saepe subconfluentia orbicularia (0,5-2''' dm.) vix convexula atra opaca glabra, matrice leniter bullosa insidentia, contextu subcarbonaceo vix margine pellucido prosenchymatico-radiante non v. vix subfimbriatulo, ostiolis numerosis elliptico-angulosis (20 × 10 μ) sparsis v. subcircinantibus perforata; loculi v. ansulae numerosi; asci obclavulati (50-70 × 12-15 μ) octospori aparaphysati v. paraphysibus paucis filiformibus obvallati; sporidia oblique disticha v. subtristicha (13-16 × 4-5 μ) loculo supero ovoideo, infero subconoideo hyalina.

Dothidea scutula B. et B. (Sacc., Syll. pyr. II, f. 632 sub *Dothidella*) huc spectat et *Polystomella scutula* (B. et Br.) vocanda.

346. Asterina Balansae Speg. — Fung. guar. pug. II, n. 130.

Hab. Ad folia viva coriacea *Myrtaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2476).

Obs. Mycelium epiphyllum araneoso-subpelliculosum atrum glabrum; perithecia scutato-dimidiata (60-100 μ dm.) subopace fuliginea margine vix fimbriatula; asci obovati v. ovati (35 × 20 μ) octospori aparaphysati; sporidia obovata (15-20 × 7-9 μ) medio 1-septata constricta, loculo supero ovato v. globoso (9-10 × 8-9 μ), infero obovato (10 × 7 μ), primo hyalina dein fuliginea.

347. Asterina colliculosa Speg. (n. sp.)

Diag. Mycelium arachnoideo-effusum vix perspicuum glabrum hyphis alterne ramosis, hyphopodiis subcylindraceis alternis ornatis; perithecia hemisphaerico-conoidea

dimidiata sparsa atra; asci obovati dense paraphysati; sporidia elliptica 1-septato-constricta, loculis subaequalibus fuliginea.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2709).

Obs. Mycelium tenuissimum fibrilloso-reticulatum non v. vix perspicuum maculosum v. effusum saepeque totum folium obtegens, ex hyphis flexuosulis matrici arcte adnatis irregulariter ramosis gracilibus (5–6 μ crs.) hyphopodiis parcis alternis cylindraceo-ramuliformibus (10 × 7 μ) integris laevibusque ornatis compositum; perithecia sparsa majuscula (200-250 μ dm.) in vivo conoidea in sicco subcollabescentia coriacella atra, contextu imperspicuo, apice stellatim rimosa, margine vix fimbriata; asci obovati (67–70 × 30-40 μ) antice late obtuseque rotundati crasseque tunicati, postice attenuati crasse brevissimeque pedicellati, paraphysibus densis crassis mucosis chlorinis (ut strato proligero) apice coalescentibus olivaceisque obvallati; sporidia conglobata elliptica (28–30 × 14-15 μ) medio 1-septata atque constricta loculis subaequalibus (sup. 14-15 × 14 μ — inf. 14 × 12 μ) primo hyalina dein fuliginea.

348. Asterina coriacella Speg. (n. sp.)

Diag. Mycelium epiphyllum crustaceo-maculosum, hyphis alterne ramosis, hyphopodiis lobato-cristatis alternis donatis compositum; perithecia coriacella margine non fimbriata minuta; asci globosi aparaphysati; sporidia elliptico-obovata, 1-septato-constricta, loculis subaequalibus fuliginea.

Hab. Ad folia viva *Cestri* speciei cujusdam in nemorosis prope *Apiahy*, Maj. 1888 (sub n. 2836).

Obs. Mycelium crustaceum plagulas sparsas epiphyllas orbiculares (2–5''' dm.) indeterminatas atras glabras opacas, centro per aetatem praecipue frustulatim evanescentes

efficiens, ex hyphis densissime constipatis medio saepius flexuosis gracilibus (6 μ crs.) fuligineis opacis alterne v. opposite ramosis, hyphopodiis oppositis v. alternis obovatis rectis v. subuncinato curvatis, saepius 3-4-lobato-cristatis ornatis efformatum; perithecia in centro macularum laxe aggregata, scutato-dimidiata (100-180 μ dm.) opaca glabra coriacella atra, contextu indistincto, per aetatem strictissime e centro ad marginem usque stellatim rimosa, margine subpellucida, fibris apice bilobis, non fimbriata; asci obovato-subglobosi (40 × 35-38 μ) apice crassiuscule tunicati sessiles octospori aparaphysati; sporidia conglobata obovata (20-24 × 8-10 μ) utrinque obtusa, medio 1-septata constrictula, loculis subaequalibus (sup. 10 × 9 μ — inf. 10-12 × 8-8,5 μ) primo hyalina dein obscure fuliginea.

349. Asterina cylindrotheca Speg. (n. sp.)

Diag. Mycelium maculosum v. arachnoideo-effusum subimperspicuum, hyphopodiis destitutum; perithecia sparsa v. laxe aggregata minuta; asci cylindracei pseudo-paraphysati; sporidia obovata, 1-septata, loculo supero leniter breviore, diu hyalina dein olivascentia.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1889 (sub n. 1550).

Obs. Mycelium quandoque subpelliculoso-maculosum (1-5''' dm.) quandoque arachnoideo-effusum subimperspicuum atrum glabrum ex hyphis laxe v. dense aggregatis flexuosulis gracilibus (5-6 μ crs.) fuligineis, hyphopodiis destitutis, parce irregulariterque ramulosis efformatum; perithecia sparsa v. laxe hinc inde aggregata scutato-dimidiata (120-180 μ dm.) centro opaca ac minute stellatim rimosa, ambitu pellucida parcissime fimbriato-appendiculata, contextu prosenchymatico-radiante fuligineo; asci cylindracei (50-80 × 18-20 μ) apice obtuse rotundati crassiuscule tunicati, basi abrupte coarctati atque in pedicello

brevi crassiusculoque producti dense pseudoparaphysati; sporidia recte disticha obovata (14-16 × 7 μ) utrinque obtusiuscula medio 1-septata non v. leniter constrictula, loculo supero globoso-ovato (6-7 × 7 μ) infero subconoideo (7-10 × 5-6 μ) diu hyalina, per aetatem chlorino-fumosa.

350. Asterina dispar Speg. — Fung. guar. pug. II, n. 125.

Hab. Ad folia viva *Styracis parvifoliae* in dumetis prope *Itabirá do Campo* secus *Rio das Velhas*, Sept. 1887 (leg. Cl. I. Arechavaleta).

Obs. Plagulae myceliales nubiloso-arachnoideae subimperspicuae epiphyllae; hyphopodia quandoque hemisphaerico-subcylindracea (10×6 μ) quandoque subconoidea apice abrupte obtuseque curvulo-subuncinata (15 × 5 μ); perithecia margine vix fimbriata, fimbriis apice profunde bilobis; asci e globoso obovati (50-60 × 38-42 μ) octospori aparaphysati; sporidia obovata (28-30 × 15-16 μ) excentrice 1-septata constrictula, loculo supero majore (sup. 18 × 15-16 μ — inf. 12 × 12-13 μ) fuliginea.

351. Asterina leptotheca Speg. (n. sp.)

Diag. Mycelium parcissimum evanescens subimperspicuum ex hyphis laxissimis hyphopodiis cylindraceo-ampulluliformibus alternis ornatis compositum; perithecia majuscula ostiolata fimbriata; asci cylindracei aparaphysati; sporidia clavulata utrinque acutiuscula, loculo supero subgloboso infero acutissimo fuliginea.

Hab. Ad folia viva *Hireae* speciei cujusdam in nemorosis prope *Apiahy*, Apr. 1881 (sub n. 1632).

Obs. Mycelium epiphyllum primo fibrilloso-reticulatum parcissimum (vix sub lente valida perspicuum) dein evanescens, ex hyphis flexuosulis repentibus (6-7 μ crs.) opace fuligineis irregulariter alterne v. opposite ramosis, hyphopodiis divaricatulis alternis e cylindraceo subampulluli-

formibus (18–20 × 6 μ) obtusis ornatis, compositum; perithecia laxe aggregata numerosa superficialia orbicularia (250–300 μ dm.) dimidiato-scutata, atra subcarbonacea opaca, contextu indistincto vix margine pellucida ac dense minuteque fimbriatula, ostiolo rotundo latiusculo (30 μ dm.) pertusa; asci cylindracei (80 × 10-12 μ) apice obtuse rotundati crasseque tunicati, base abrupte cuneati breviter crasseque pedicellati, paraphysati (an semper?) octospori; sporidia recte v. suboblique monosticha clavulata (15–16 × 7-8 μ) medio 1-septata constricta, loculo supero globoso-ovato acute obtusato (6–7 × 8 μ), infero conoideo acutissimo (8–9 × 9 μ) eguttulato, primo hyalina dein pallide fumoso-olivacea. Species inter *Asterinam* et *Seynesiam*, ob subiculi evanescentiam, vere intermedia.

352. Asterina melastomatis Lév. — Sacc., Syll. pyr. I, f. 51.

Hab. Ad folia viva *Melastomaceae* cujusdam in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2756).

Obs. Mycelium maculosum epiphyllum laxe fibrilloso-reticulatum vix perspicuum, ex hyphis alterne ramosis gracilibus (6-7 μ crs.) hyphopodiis alternis sparsis cylindraceo-hemisphaericis (8-10 × 6 μ) sessilibus donatis efformatum; perithecia laxe gregaria dimidiato-scutata (120–150 μ dm.) stellatim rimosa, centro opaca margine pellucida fimbriata, atra laevia; asci obovati (40 × 24-30 μ) apice obtuse rotundati crasseque tunicati octospori aparaphysati v. pseudoparaphysibus per aetatem fuscescentibus immixti; sporidia conglobata obovata (16-20 × 8–10 μ) utrinque obtusa medio 1-septata constrictula, loculis aequilongis, infero vix graciliore, primo hyalina dein fuliginea.

353. Asterina nodulosa Speg. (n. sp.)

Diag. Mycelium nubiloso-maculosum ex hyphis gracilibus, hyphopodiis destitutis, hinc inde noduloso-inflatis effor-

matum; perithecia scutata opaca fimbriata; asci obovati aparaphysati; sporidia elliptico-obovata, loculis subaequalibus, fuliginea.

Hab. Ad folia viva *Tabebuiae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1585).

Obs. Mycelium plagulas orbiculares (2–5''' dm.) laxissime fibrilloso-reticulatas radiantes, fere vix sub lente perspicuas, efficiens, ex hyphis rectiusculis gracilibus (5-6 μ crs.) laxe alterne ramosis hinc inde elliptice noduloso-inflatis, nodulis (14-15 × 10-12 μ) grosse 1-guttulatis, fuligineis subopacis hyphopodiis destitutis efformatum; perithecia in plagulis laxe aggregata dimidiato-scutata (150-200 μ dm.) stellatim rimosa coriacella, contextu ambitu tantum pellucido ac perspicuo prosenchymatico-radiante vix septulato donata, margine fibrilloso-appendiculata; asci obovati (40-50 × 30-40 μ) antice obtusissime rotundati crasseque tunicati base abrupte crasse breveque pedicellati, 2-8-spori, aparaphysati; sporidia elliptica v. subobovata (32–34 × 16–18 μ), utrinque obtusa 1-septata non v. vix constricta, loculo supero vix majore (sup. 14–15 × 16-18 μ — inf. 14 × 14-16 μ), primo hyalina dein fuliginea.

354. Asterina obtusispora Speg. (n. sp.)

Diag. Mycelium arachnoideo-nubilosum subimperspicuum ex hyphis alterne ramosis, hyphopodiis alternis vix hemisphaericis instructis compositum; perithecia minuta coriacella; asci globoso-pyriformes aparaphysati; sporidia obovata utrinque obtusissima, loculo supero crassiore brevioreque, fuliginea.

Hab. Ad folia viva coriacea plantae cujusdam ignotae in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2728).

Obs. Mycelium epiphyllum parcissimum, fere sub lente tantum perspicuum, fibrilloso-reticulatum, ex hyphis gracilibus (5 μ crs.) laxe alterneque ramulosis fuligineis su-

bopacis, hyphopodiis alternis vix hemisphaerico-prominulis ornatis efformatum; perithecia in plagulis mycelialibus laxe gregaria scutato-dimidiata (100-120 μ dm.) stellatim rimosa, centro opaca, ambitu prosenchymatico-radiantia, margine breviter densiusculeque subrepando-fimbriatula atra; asci e sphaeroideo obovati (45 × 40 μ) apice crassiuscule tunicati, basi abrupte brevissimeque pedicellati aparaphysati octospori; sporidia obovata (22-24 × 14 μ) utrinque obtusa 1-septata non v. vix constrictula, loculo supero subhemisphaerico (10-12 × 14 μ), infero conoideo (12-14 × 10-12 μ), diu hyalina dein fuliginea.

355. Asterina peraffinis Speg. (n. sp.)

Diag. Mycelium maculoso-effusum subcrustaceum ex hyphis alterne ramosis, hyphopodiis subsessilibus alternis 2-4-lobato-cristatis efformatum; perithecia pusilla vix fimbriata; asci obovati aparaphysati; sporidia elliptica v. subcylindraceo-obovata, loculo supero longiore, fuliginea.

Hab. Ad folia viva *Asclepiadeae* cujusdam in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2861).

Obs. Mycelium atrum epiphyllum rarius amphigenum, plagulas parvulas (0,5-1''' dm.) dense constipatas saepe confluentes subcrustaceas tenues efficiens ex hyphis gracillimis (4-5 μ crs.) dense intertextis flexuosulis alterne ramosis, hyphopodiis alternis hemisphaericis v. uncinato-obovatis saepius trilobis, lobis saepius obtuse bidentatis v. emarginatis, ornatis compositum; perithecia in plagulis sparsa v. laxe aggregata dimidiato-scutata (80-100 μ) 10-12-laciniato-dehiscentia membranacea subopaca, contextu prosenchymatico-radiante fuligineo, ambitu subintegra parcissime fimbriato-appendiculata; asci obovati v. pyriformes (30 × 25 μ) apice late obtusissimeque rotundati, base brevissime crasseque pedicellati octospori aparaphy-

sati; sporidia conglobata e cylindraceo v. ellipsoideo obovata (18-20 × 9-10 μ), utrinque obtusiuscula 1-septata constrictula, supero longiore (10-12 × 8-10 μ) infero breviore (8 × 6–7 μ), primo hyalina dein fuliginea. Species sequenti peraffinis, satis tamen distincta.

356. Asterina pseudopelliculosa Speg. (n. sp.)

Diag. Mycelium tenuissime pelliculosum latissime effusum ex hyphis alterne ramosis, hyphopodiis hemisphaerico-cristatis subsessilibus alternis ornatis efformatum; perithecia pusilla membranaceo-pellucida; asci pyriformes aparaphysati; sporidia elliptico-obovata, fuliginea.

Hab. Ad folia viva *Ipomeae* speciei cujusdam in dumetis prope *Apiahy,* Aut. 1888 (sub n. 2848).

Obs. Mycelium tenuissime pelliculosum atrum totum epi-(rarius etiam hypo-) phyllum obtegens, ex hyphis gracillimis (4-5 μ crs.) dense irregulariterque ramuloso-intertextis, hyphopodiis subsessilibus v. sessilibus e globoso hemisphaericis crenulato-subcristatis alternis v. suboppositis ornatis, pallide fuligineis compositum; perithecia hinc inde sparsa, stellatim 10–20-laciniato-dehiscentia subopace fuliginea dimidiato-scutata (80-120 μ dm.), contextu prosenchymatico-radiante, margine non v. vix repandula, atra glabra; asci obovato-pyriformes (55-40 × 30–35 μ) apice latissime obtuseque pedicellati aparaphysati octospori; sporidia conglobata ex elliptico subobovata (18 × 8 μ) 1-septata, constrictula, loculo supero subbreviore (8 × 8 μ) infero subgraciliore (10 × 7 μ), primo hyalina dein fuliginea. Species *Ast. pelliculosae* Brk. affinis, sed mox dignoscenda.

357. Asterina Puiggarii Speg. — Fung. guar. pug. II, n. 124.

Hab. Vulgatissima ad folia viva *Zanthoxyli*, *Trichiliae* nec

non *Myrtacearum Melastomacearumque* prope *Apiahy*, per ann. 1881–88 (sub n. 1550–2352-2710-2756).

Obs. Species distinctissima; mycelio saepius parcissimo, hyphopodiorum defectu, peritheciorum fabrica, ascis subcylindraceis sporidiisque clavulatis mox dignoscenda. Hyphae cylindraceae densiusculae flexuosulae septulatae fuligineae hyphopodiis destitutae; perithecia in juventute membranacea pellucida prosenchymatico-radiantia, per aetatem coriacea centro saepius *dense reticulatimque pellucido-rimulosa* ambitu pellucida saepius repando-denticulata (250–400 μ dm.); asci crasse cylindracei v. leniter clavulati, rarius subovati (75-100 × 30-40 μ) aparaphysati v. paraphysibus parcis filiformibus immixti; sporidia 2–3-sticha clavulata (25-32 × 10-15 μ) 1-septata, valide constricta, loculo supero e globoso ovoideo (12-16 × 12-14 μ) obtuse acutato granuloso-farcto, infero conoideo (12-16 × 8–10 μ), recta v. vix inaequilateralia, diu hyalina, per aetatem tamen fuliginea.

358. Asterina stellata Speg. (n. sp.)

Diag. Mycelium arachnoideo-subpelliculosum atrum maculosum v. late effusum ex hyphis alterne v. opposite ramosis, hyphopodiis ovoideis sessilibus alternis ornatis compositum; perithecia pusilla membranacea margine stellato-lobata; asci e globoso obovati aparaphysati; sporidia elliptica v. obovata utrinque obtusa, loculo supero conspicue minore, fuliginea.

Hab. Ad folia viva *Compositae* herbaceae cujusdam in dumetis prope *Apiahy*, Apr. 1888 (sub n. 2763).

Obs. Mycelium plagulas arachnoideo-subpelliculosas orbiculares (1-5''' dm.) epi- (rarius hypo-) phyllas, dense gregarias saepe confluentes ac totum folium obtegentes atras efficiens ex hyphis gracilibus (5-6 μ crs.) rectiusculis alterne v. opposite ramosis, hyphopodiis obovatis (10×6 μ) alternis integris sessilibus v. subsessilibus ornatis apice fuligineis

compositum; perithecia in plagulis sparsas v. laxe aggregata, dimidiato-scutata (100-120 μ dm.) ambitu majuscule parceque stellatim lobato-dentata, tenui membranacea, pellucida, contextu grosse prosenchymatico-radiante, cellulis flexuosis (10-20 $\times$ 4-5 μ) fuligineis composito donata, rimose stellato-dehiscentia atra glabra; asci pyriformes (50-60 $\times$ 25-30 μ) antice obtuse rotundati crasseque tunicati postice subcuneati ac pedicello brevissimo crassoque suffulti, octospori aparaphysati; sporidia conglobata elliptica v. obovata (29-30 $\times$ 15 μ) utrinque obtusa rotundata, 1-septata, in juventute non constricta, per aetatem valide constricta fuliginea, loculo supero depresso (10-12 $\times$ 13-15 μ), infero obovato (18 $\times$ 15 μ).

359. Asterina sylvatica Speg. (n. sp.)

Diag. Mycelium maculosum arachnoideo-subpelliculosum ex hyphis alterne ramosis hyphopodiis hemisphaericis alternis ornatis compositum; perithecia minuta coriacella fimbriatula; asci obovati aparaphysati; sporidia elliptica 1-septata, loculis aequilongis, fuliginea.

Hab. Ad folia viva *Trichiliae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1702).

Obs. Mycelium plagulas epiphyllas orbiculares (2-4''' dm.) saepe confluentes, arachnoideo-nubilosas, non v. vix tenuissime subcrustaceo-pelliculosas atras efficiens, ex hyphis flexuosulis irregulariter ramulosis densiuscule intertextis gracilibus (5-6 μ crs.) hyphopodiis hemisphaericis (rarius ovoideis) integris (5 $\times$ 6 μ) alternis ornatis fuligineis compositum; perithecia dimidiato-scutata (120-150 μ dm.) glabra astoma minute stellatim rimosa, coriacella opaca, vix ambitu pellucida ac fibroso-radiata, margine parce crasseque appendiculato-fimbriata; asci obovati (40-55 $\times$ 25-30 μ) antice obtusissimi ac crasse tunicati, postice non v. vix pedicellati octospori aparaphysati; sporidia conglobata elliptica non v. vix subclavulata

(20-24 × 8-10 μ) medio 1-septata constricta, utrinque obtusa, loculis (sup. 10-12 × 9-10 μ — inf. 10-12 × 8-9) aequalibus, primo hyalina dein fuliginea.

360. Seynesia? megalothecia Speg. (n. sp.)

Diag. Perithecia maxima, superficialia membranacea atra; asci globoso-ovati aparaphysati; sporidia obovata didyma fuliginea.

Hab. Ad folia viva *Sebastianiae* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1625).

Obs. Perithecia epiphylla sparsa scutato-dimidiata orbicularia (1-1,5''' dm.) vix convexula, centro per aetatem irregulariter stellatim dehiscentia, margine repandulo-crenata sed non fimbriata, mycelio destituta, membranaceo-coriacella, vix ambitu pellucida, contextu prosenchymatico-radiante rectiusculo continuo dense guttulato olivaceo; asci e sphaeroideo subobovati (50-60 × 45-50 μ) tunica ubique tenui vestiti vix papillulato-pedicellati, octospori aparaphysati; sporidia obovata (30 × 16 μ) medio 1-septata constrictula, loculo supero e globoso ovato (12 × 16 μ) infero obovato-conoideo (16-18 × 12 μ) primo hyalina dein fuliginea. Species pulchella mox dignoscenda, saepius a *Dimerosporio asterinarum* Speg. obliterata.

361. Seynesia olivascens Speg. (n. sp.)

Diag. Perithecia pusilla neurophila atra; asci clavulati aparaphysati; sporidia obovata, loculo infero minutissimo, olivacea.

Hab. Ad folia viva *Myrtaceae* y *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, Hiem. 1880 (sub n. 1550).

Obs. Perithecia epiphylla nervulis insidentia, maculas fuscescentes dendritico-ramulosas reticulatas (2-10''' dm.) efficientia, innata? superficialia, mycelio destituta, dímidiato-scutata (80-90 μ dm.) centro stellatim rimosa, coriacella atra opaca, ambitu pellucido-olivacea, margine

integra, glabra; asci clavulati (30 × 12 μ) antice obtusi crasseque tunicati octospori aparaphysati; sporidia conglobata e cylindraceo obovata (10–11 × 4 μ) utrinque obtuse rotundata, excentrice 1-septata, non v. vix constrictula, loculo supero quam infero triplo v. quadruplo longiore, olivacea.

362. Seynesia pachysperma Speg. (n. sp.)

Diag. Maculigena; perithecia laxe gregaria, coriacella; asci globosi aparaphysati; sporidia majuscula obovata subexcentrice 1-septata fuliginea.

Hab. Ad folia coriacea viva plantae ignotae in sylvis prope *Apiahy*, Aut. 1880 (sub n. 1624).

Obs. Maculae epiphyllae irregulariter suborbiculares (3–6‴ dm.) olivascentes, submucedineo-furfuraceae (an thallus vetustus?) subdeterminatae; perithecia in maculis sparsa v. laxe gregaria, dimidiato-scutata (150–200 μ dm.) centro irregulariter v. stellatim dehiscentia, margine integra non fimbriata, coriacella, contextu opaco indistincto, atra glabra; asci globosi v. subobovati (55–65 × 40–60 μ) antice obtusissimi vix incrassato-tunicati, postice brevissime crasseque pedicellati, octospori aparaphysati, tunica primo hyalina dein fuscescente vestiti; sporidia conglobata obovata (32–42 × 18–20 μ) utrinque obtusa, subexcentrice 1-septata modiceque constrictula, loculo supero majore crassioreque (17-22 × 18-20 μ), infero breviore graciliorequé (15-20 × 14 μ), diu hyalina dein fuliginea.

363. Seynesia variolosa Speg. (n. sp.)

Diag. Perithecia epiphylla subcircinata plaglulas minutas orbiculares dense variolose sparsas subcrustaceas efficientia, minuta coriacella atra; asci e globoso-cylindracei aparaphysati; sporidia obovata, loculo infero minore, fuliginea.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvis prope *Apiahy*, Dec. 1882 (sub n. 2925).

Obs. Perithecia epiphylla irregulariter v. subcircinatim dense constipata plagulas minutas (0,5–2''' dm.) atras granulosas, centro saepe deficientes, sparsas v. saepius hinc inde dense varioloso-aggregatas efformantia, minuta (120–150 μ dm.) dimidiato-scutata atra glabra laevia, centro stellatim dehiscentia, coriacella vix margine strictissime pellucido-prosenchymatica, subcrenatula, crenaturis (v. apice fibrarum) integris; asci in juventute sphaeroideo-pyriformes (28-30 × 18-20 μ), per aetatem subcylindracei v. subclavulati (35-40 × 12-15 μ) octospori aparaphysati; sporidia conglobata v. disticha ellipsoideo-obovata (12 × 5-6 μ) excentrice 1-septata subconstrictula, loculo supero majore subovato-globoso (7-8 × 6 μ), infero e cylindraceo obtusissime subconoideo (4-5 × 4-5 μ), primo hyalina dein pallide fuliginea. Subiculum omnino deficiens.

TRICHOPELTIS Speg. (n. gen.)

Char. Mycelium e fibris pro ratione majusculis membranaceo-applanatis vittaeformibus non costatis dendritico-ramulosis prosenchymatico-contextis efformatum; perithecia superficialia v. fibris tecta dimidiato-scutata parvula ostiolata; asci octospori; sporidia 2-septata hyalina.

Genus nobilissimum, cujus typus *Trichopeltis reptans* (B. et C.) Speg. (Cub. Fung. n. 734 sub *Asterina*) est.

364. TRICHOPELTIS PULCHELLA Speg. (n. sp.)

Diag. Vittae mycelii membranaceo-pellucidae prosenchymaticae olivaceae laxe ramoso-intricatae longiusculae atque latiusculae; perithecia pusilla ostiolo rotundo perforata; asci obovati aparaphysati; sporidia elliptico-obovata minuta 2-septata hyalina.

Hab. Ad folia viva *Myrtacearum* in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2364–65).

Obs. Vittae v. taeniolae myceliales e puncto centrali oriundae stellatim v. irregulariter effusae parce flexuosae longiusculae atque latiusculae (2–12''' lg. × 80-100 μ dm.) tenuissime membranaceae, parcissime ramulosae, rarius subcrustaceo–intricatae, utrinque subattenuatae, fusco-olivaceae, matrici arcte adnatae, prosenchymaticae, contextu e centro taeniolae (non costato-incrassato) marginem versus arcuato-expanso v. rectiusculo septulato, cellulis saepius 1-guttulatis, donatae; perithecia matrici adnata vittis tecta eisque superne adnata, scutato-dimidiata (70-90 μ dm.) membranacea, contextu prosenchymatico-radiante olivaceo, vix convexula margine integerrima ostiolo minuto rotundo (10 μ dm.) perforata, atra glabra; asci obovati v. elliptico-ovati (25 × 14 μ) apice umbonato-obtusati crassiuscule tunicati base cuneati ac pedicello breviusculo suffulti octospori aparaphysati; sporidia conglobata elliptico-subclavulata (10-12 × 3 μ) utrinque obtusiuscula, 2-septata non constricta, loculis extimis majoribus, recta v. leniter curvula, hyalina. Species *Asterinae labeculae* Mntgn. affinis videtur sed specimina ad comparandum mihi desunt et descriptio nimis manca!

365. Micropeltis albo–marginata Speg. (n. sp.)

Diag. Perithecia dimidiato–scutata sparsa majuscula coriacea atra; asci fusoideo–cylindracei aparaphysati; sporidia fusoideo clavulata, 3-4–septata hyalina.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in nemorosis prope *Apiahy*, Hiem. 1880 (sub n. 1443).

Obs. Perithecia epiphylla v. laxe gregaria, subiculo omnino destituta, dimidiato-scutata (300-400 μ dm.) in vivo subhemisphaerica in sicco collabescentia medio papillulata glabra laevia atra opaca subcarbonacea, contextu atro-opaca, minute denseque pellucide (rimuloso?) reticulata, margine integerrima zona strictiuscula (20–50 μ lt.) hyalina anhysta cincta, medio ostiolo rotundo minutissimo

perforata; asci e cylindraceo fusoidei (65-70 × 15 μ) apice subtruncato-rotundati crassiusculeque tunicati, deorsum attenuato-cuneati in pedicello brevissimo crassoque producti octospori aparaphysati; sporidia fusoideo-clavulata (18-20 × 4 μ) superne obtusiuscula inferne acutiuscula, recta v. vix lenissime inaequilateralia, 3 v. 4 (an 5?)-septata, non constricta hyalina. Species *M. applanatae* Mntgn. peraffinis, peritheciis majoribus tamen sporidiisque minoribus recedens.

366. Micropeltis? membranacea Speg. (n. sp.)

Diag. Perithecia dimidiato-scutata minuta margine longe fimbriata, aggregato-confluentia, crustam tenuissime membranaceam atram efficientia; asci ovati aparaphysati; sporidia clavulata, 4-pseudoseptata hyalina.

Hab. Ad folia subcoriacea plantae cujusdam ignotae in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1554).

Obs. Perithecia atra glabra laevia dimidiato-scutata orbicularia (80-90 μ dm.) vix convexula, centro minute stellatim dehiscentia membranacea, contextu prosenchymatico-radiante rectiusculo olivaceo donata, margine longe denseque fimbriata, densissime constipata atque fimbriis inter se intertextis juncta, pelliculam subopacam atram late matricem obtegentem facillimeque ab ea secedentem effor-mantia; asci ovati (35-40 × 20-22 μ) apice subtruncato-rotundati crassiusculeque tunicati, base rotundato-cuneati atque pedicello brevissimo suffulti octospori aparaphysati; sporidia conglobata clavulata (16 × 5 μ) superne obtuse, inferne acutiuscule rotundata, 4-pseudoseptata non constricta, loculo supero majore, caeteris gradatim minoribus, hyalina. Jodi ope nulla!

67. Micropeltis subapplanata Speg. (n. sp.)

Diag. Perithecia sparsa dimidiata-scutato minuta coriacella;

asci ovati 5–8–spori aparaphysati; sporidia fusoideo–cylindracea 3-7-septulata hyalina.

Hab. Ad folia viva *Solanaceae* cujusdam prope *Nicaragua* (leg. cl. Wright).

Obs. Perithecia epiphylla sparsa dimidiato-scutata orbicularia (120-160 μ dm.) e centro minute irregulariterque stellatim rimosa, margine integra atra glabra opaca coriacella, contextu indistincto (anhisto?) vix ambitu pellucido pallidius reticulato–punctulato donata, subiculo omnino destituta; asci ovati (50 × 30 μ) antice umbonati obtusissime rotundati, postice rotundati pedicello brevissimo crassoque suffulti; sporidia conglobata e cylindraceo fusoidea (20–32 × 4-5 μ) recta v. leniter curvula utrinque obtusiuscula 3–7–septata, non constricta hyalina. Species *M. applanatae* Mntgn. peraffinis, sed sporidiis 5–7–septatis ascisque ovoideis tamen satis recedens.

368. Scutellum paradoxum Speg. — Sacc., Syll. pyr. V. II, f. 668.

Hab. Ad folia viva coriacea plantae ignotae cujusdam ín sylvis prope *Apiahy*, per ann. 1881–88 (sub n. 1060–2382).

Obs. Specimina nonnulla a typo peritheciis subastomis atque sporidiis subminoribus (18 × 5–6 μ) fuligineis vix deflectunt.

Scolecopeltis Speg. (n. gen.)

Char. Perithecia dimidiato–scutata superficialia, subiculo destituta atra; asci octospori; sporidia filiformia ascorum longitudine, in articulis secedentia, hyalina.

369. Scolecopeltis tropicalis Speg. (n. sp.)

Diag. Perithecia majuscula atra coriacea glabra subiculo destituta ostiolata superficialia; asci cylindracei v. subfusoidei octospori aparaphysati; sporidia cylindraceo–filiformia in articulis secedentia hyalina.

Hab. Ad epicarpium nec non folia viva *Citri aurantii* in hortis prope *Apiahy*, Aest. 1888 (sub n. 2338 et sine n.)

Obs. Perithecia sparsa mycelio omnino destituta scutato-orbicularia (0,5–1''' dm.) facillime a matrice secedentia, centro ostiolo rotundo (10–20 μ dm.) perforata, margine integra, atra glabra opaca, contextu indistincto atro vix ambitu pellucido ac pallidius dense minuteque venuloso-(rimuloso?) reticulato; asci cylindracei v. subfusoidei (130–180 × 16-20 μ) apice subtruncato-rotundati, deorsum attenuato-cuneati, brevissime crasseque pedicellati, ubique crassiuscule tunicati, octospori aparaphysati; sporidia ascorum longitudine cylindracea utrinque attenuata atque acutiuscula, primo dense septulata, dein in articulis cylindraceis utrinque rotundatis (5–15 × 4–5 μ) dilabentia hyalina.

370. Saccardinula coriacea Speg. (n. sp.)

Diag. Perithecia coriacella minuta atra, subiculo destituta; asci elliptici v. ovoidei; sporidia obovata horizontaliter 3-septata, septo altero verticali divisa, hyalina.

Hab. Ad folia viva coriacea plantae cujusdam ignotae in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2580).

Obs. Perithecia epiphylla sparsa v. hinc inde 3–5–aggregata, macula minuta (1–3''' dm.) purpurascenti-fusca indeterminata insidentia, scutato-dimidiata orbicularia (250-300 μ dm.) astoma, margine integra, coriacella contextu indistincto, vix ambitu fumoso-pellucido donata; asci elliptici v. elliptico-ovoidei (45 × 22 μ) apice crassissime tunicati obtuseque umbonato-rotundati, base rotundato-subcuneati in stipite brevissimo crassiusculo producti, substantia granulosa (an pseudoparaphysibus?) hyalina immersi; sporidia conglobata obovata (18-24 × 9–12 μ) utrinque obtusiuscula horizontaliter 3–septata, ad medium tantum constrictula, loculis 1 v. 2 internis (rarius extimis) septo altero verticali divisis, hyalina.

HEMYSTERIACEAE Speg.

371. Lembosia ampulluligera Speg. — Fung. guar. pug. I, n. 303 (sub *Morenoella*).

Hab. Ad folia viva *Laurineae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2852).

Obs. Specimina brasiliensia vix a typo recedunt hyphopodiis longioribus (15 × 5 μ) sporidiisque conspicue majoribus (18–20 × 8 μ), loculo supero globoso-ovato (8 × 8 μ) infero conoideo-obovato (10 × 7 μ) fuligineis. Hyphopodia densissima semper opposita eximie ampulluliformia.

372. Lembosia melastomatum Mntgn. — Sacc., l. c. f. 742.

Hab. Ad folia viva *Melastomacearum* in nemorosis prope *Apiahy*, Aest. 1888 (sub n. 2756–2924).

Obs. Mycelium epiphyllum plagulas orbiculares (1–5''' dm.) laxe fibrilloso-radiantes atras efficiens ex hyphis rectiusculis gracilibus (6 μ crass.) alterne ramosis fuligineo-pellucidis septulatis, hyphopodiis alternis sparsis sessilibus hemisphaerico-ovatis (7–8 μ crs.) laxe ornatis compositum; perithecia dimidiato-scutata in mycelii centro laxe aggregata breviter elliptica (200-400 μ lg. × 80-100 μ lt.) utrinque obtuse rotundata coriacella, rimula acutiuscula longitudinali dehiscentia opaca, ambitu pellucida dense fimbriatula, fimbriis apice simplicibus (5 μ crs.) breviusculis; asci pyriformes (50–65 × 30-45 μ) antice obtusissimi crasse tunicati postice brevissime crasseque pedicellati octospori, aparaphysati; sporidia conglobata elliptica v. ovata (26-30 × 12-14 μ) utrinque obtusiuscula medio 1-septato-constrictula, loculo supero non v. vix longiore crassioreque (sup. 14–16 × 12-14 μ — inf. 12-14 × 11 μ) fuliginea.

373. Lembosia? microscopica Speg. (n. sp.)

Diag. Maculae determinatae albo-pallescentes; perithecia sparsa hypophylla linearia atra subiculo omnino destituta; asci ovati v. pyriformes aparaphysati; sporidia obovata olivascentia.

Hab. Ad folia languida *Eugeniae* speciei cujusdam in sylvis prope *Apiahy*, Maj. 1888 (sub n. 2605).

Obs. Maculae amphigenae irregulariter suborbiculares (3-10‴ dm.) repandae pallescentes determinatae linea fuscescenti-testacea strictissima cinctae; perithecia dimidiato-scutata in maculis hypophylla sparsa superficialia minutissima (oculo nudo fere imperspicua) linearia (250-1500 × 50-70 μ) recta v. flexuosula utrinque acutiuscule obtusata, rimula latiuscule hiante longitudinali dehiscentia, atra glabra opaca tenui membranacea, contextu prosenchymatico-radiante rectiusculo septulato, margine integra v. vix undulata; asci pyriformes ovati (15-16 × 7-8 μ) antice plus minusve obtusati crasseque tunicati postice cuneati crasse pedicellati octospori aparaphysati; sporidia elliptico-obovata (6-7 × 2 μ) superne obtuse inferne acute rotundata, primo 4-guttulata, dein medio 1-septata non constricta, loculis aequilongis, primo hyalina dein olivaceo-fuliginea. Species pulchella perpusilla difficillime inveniendа, a genere subiculi defectu satis deflectens.

374. Lembosia myrtacearum Speg. (n. sp.)

Diag. Mycelium pelliculoso-maculosum atrum ex hyphis flexuosulis saepius opposite ramosis, hyphopodiis ampulluliformibus alternis ornatis compositum; perithecia elliptica non v. vix fimbriatula; asci clavato-pyriformes aparaphysati; sporidia clavulata fuliginea.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in nemorosis prope *Apiahy*, Aest. 1881 (sub n. 1699).

Obs. Mycelium epiphyllum plagulas orbiculares (3-5‴ dm.) submembranaceas ambitu nubiloso-evanescentes arctiu-

scule matrici adnatas efficiens, ex hyphis flexuosulis subgracilibus (5-7 μ crs.) saepius opposito-ramosis, hyphopodiis alternis divaricatis ampulluliformibus (12 × 4 μ) obtusis ornatis fuligineo-opacis compositum; perithecia dimidiato-scutata in subiculo laxe aggregata elliptico-linearia (300-600 μ lg. × 120-150 μ lt.) recta v. subflexuosula utrinque obtusa coriacella, contextu prosenchymatico-radiante fuligineo subflexuosulo vix ambitu pellucide perspicuo donata, longitudinaliter rimose dehiscentia, margine integra parcissime appendiculato-fimbriata atra glabra opaca; asci obclavulati v. pyriformes (30-40 × 18-20 μ) antice subtruncato-rotundati postice cuneati breviter crasseque pedicellati octospori aparaphysati; sporidia conglobata elliptico-clavulata (18-20 × 7-8 μ) 1-septata non v. vix constricta, loculo supero ovato subacutiusculo (7-8 × 8 μ) infero cylindraceo obtusissimo (10-12 × 6-7 μ) primo hyalina dein fuliginea. Species *L. ampulluligerae* Speg. valde affinis, sed recedit mycelio magis crustaceo, hyphopodiis subramululiformibus semper alternis laxis, loculo infero sporidiorum cylindraceo.

375. Lembosia? Puiggarii Speg. (n. sp.)

Diag. Mycelium vix maculoso-nubilosum ex hyphis irregulariter ramulosis hyphopodiis hemisphaericis alternis donatis compositum; perithecia laxe gregaria elliptica non fimbriata; asci pyriformes aparaphysati; sporidia clavulata fuliginea.

Hab. Ad folia coriacea viva plantae cujusdam ignotae prope *Apiahy*, Aest. 1882 (sub n. 1578).

Obs. Mycelium epiphyllum plagulas atras nubilosas parum perspicuas irregulariter expansas (3-8‴ dm.) non pelliculosas efformans, ex hyphis gracilibus (5-6 μ crs.) flexuosulis densiuscule intertextis irregulariter ramulosis, hyphopodiis paucissimis alternis vix noduloso-hemisphaericis (8 μ crs.) integris ornatis, fuligineo-opacis compositum;

perithecia in plagulis laxe gregaria ex elliptico orbicularia (150-300 × 80-150 μ) subtrigona v. linearia utrinque obtusa, longitudinaliter rimose dehiscentia, margine integra parcissime fibrilloso-appendiculata coriacella opaca contextu prosenchymatico-radiante fuligineo-atro vix v. non perspicuo donata; asci pyriformes (30-40 × 20-35 μ) antice truncato-rotundati crasseque tunicati postice cuneati brevissime papillato-pedicellati octospori aparaphysati; sporidia conglobata subclavulata (24-28 × 8-9 μ) utrinque obtusiuscula recta v. vix curvula 1-septata leniter constricta loculo supero vix crassiore atque conspicue breviore (10 × 9 μ) infero longiore (14-16 × 7-8 μ) primo hyalina dein fuliginea (an per aetatem 3-septata?).

376. Hysterostomella circinata Speg. (n. sp.)

Diag. Stromata irregulariter suborbiculari-repanda crustacea atra ostiolis subcircinatis rimosis breviusculis exasperata; asci pyriformes aparaphysati; sporidia majuscula obovata 1-septata, loculo supero breviore, fuliginea.

Hab. Ad folia subcoriacea plantae cujusdam ignotae in sylvis prope *Apiahy*, Jul. 1881 (sub n. 1639).

Obs. Stromata epiphylla sparsa, rarius aggregata ac confluentia, irregulariter dimidiato-scutata suborbicularia (3-6‴ dm.) margine repando-effusa tenuia crustacea superficialia matrici arcte adnata, planissima atra glabra laevia opaca, ostiolis saepius circinatis, rarius irregulariter dispositis, subcentralibus breviter linearibus prominulis, primo clausis dein latiuscule hiantibus (300-600 μ lg. × 120-180 μ lt.) grosse exasperata, contextu fere opaco atro-fuligineo prosenchymatico-radiante parce septulato donata; loculi vix rugula stromatica divisi lineari-flexuosi saepius hinc inde confluentes (500-1000 μ lg. × 150-250 μ lt.) quandoque subconcentrici quandoque irregulariter intricati, muco fuscescente farcti; asci pyriformes (60-70 × 40-50 μ) antice obtusissimi non v. vix subumbonati crasseque tu-

nicati, postice cuneati brevissime crasseque pedicellati octospori aparaphysati; sporidia conglobata obovata (34-40 × 16-20 μ) 1-septata non v. vix constricta loculo supero subsphaeroideo (14-15 × 18-20 μ) subpallidiore, infero cylindraceo-obovato (21-26 × 16-18 μ) obtusissimo obscuriore, primo hyalina dein subopace fuliginea. Species pulchella *H. guaraniticae* Speg. peraffinis sed bene distincta; primo intuitu facillime pro *Lembosia* quadam, ob ostiola prominula latiuscule aperta 1-v. 2-circinata, sumenda.

377. Hysterostomella? rhytismoides Speg. (n. sp.)

Diag. Stromata hypophylla irregulariter ellipsoideo-expansa majuscula tenuiter crustacea arcte adnata atra glabra, subimperspicue concentriceque rugulosa; loculi lineares concentrici gracillimi rimose dehiscentes; asci cylindracei aparaphysati; sporidia minuta elliptico-clavulata 1-septata hyalina (an semper?).

Hab. Ad folia viva *Lomariae imperialis* in nemorosis prope *Apiahy*, Oct. 1883 (sub n. 696 b.)

Obs. Maculae epiphyllae atro-fuscae irregulariter ellipsoideo-orbiculares (1-3''' dm.) indeterminatae rugis 1 v. 2 concentricis majusculis ornatae; stromata hypophylla saepius ellipsoidea (1-5''' lg. × 0,5-4''' lt.) sparsa v. hinc inde plus minusve gregaria saepeque confluentia dimidiato-scutata superficialia crustaceo-membranacea tenuissima subrigidula arcte matrici adnata atra glabra, oculo nudo laevia, sub lente dense concentriceque ostiolato-rugulosa ambitu integra, contextu pellucido dense subparenchymatico-radiante, cellulis subcuboideis (3-4 × 2-3,5 μ) muralibus composito, fuligineo-olivaceo, obsolete zonato, margine integerrimo majuscule regulariterque crenato; loculi dissepimentis tenuissimis separati gracillimi lineares (0,5-2''' lg. × 50-70 μ) concentrici extus vix rugiformi-manifesti, ostiolo rimoso longitudinali dehiscentes;

asci e cylindraceo leniter clavatí v. obclavati (42–50 × 10-12 μ) apice subtruncato-rotundati crassissimeque tunicati base abrupte crasse brevissimeque pedicellati, octospori aparaphysati; sporidia ellipsoideo-clavulata (11-12 × 3-5 μ) primo continua dein medio 1-septata, loculis subaequilongis, hyalina, an postremo olivacea? Species pulcherrima mox dignoscenda. Species perplurimae, generis *Rhytisma* auctorum, a me inspectae, sub hoc genere militant.

378. Schneepia? Arechavaletae Speg. (n. sp.)

Diag. Stromata scutata majuscula dense radiatim sulcato-peritheciigera, peritheciis acute rimulosis, vix centro laevia v. subumbilicata atra opaca; asci elliptico-cylindracei, parce clavulato-paraphysati; sporidia obovata didyma hyalina.

Hab. Ad folia viva *Styracis parvifoliae* in dumetis prope *Itabirá do campo*, secus *Rio das Velhas*, Sept. 1887 (leg. Cl. J. Arechavaleta).

Obs. Stromata epiphylla sparsa v. laxe gregaria saepeque confluentia, eximie orbicularia (2-6''' dm.) superficialia, matrici arctiuscule adnata, vix convexula, dense radiatim sulcato-rugosa, rugis acutiusculis rimosis, centro plus minusve applanata v. subumbilicata atra glabra laevia opaca subcarbonacea, contextu atro opaco indistincto; loculi (perithecia) lineares radiantes, ad marginem stromatis brevissime liberi rotundati, centrum versus attenuato-confluentes (1-2,5''' lg. × 300–500 μ lt.) rima longitudinali, labiis acutiuscule conniventibus, dehiscentia; asci elliptici v. cylindraceo-obovati (50-60 × 15-20 μ) antice obtuse rotundati crassissimeque tunicati 1-foveolatique, postice rotundato-subcuneati brevissime crasseque stipitati, octospori, paraphysibus paucis nonnihil longioribus (80–90 × 2 μ) apice clavulato-incrassatulis (3-5 μ crs.) obtusis olivascentibusque obvallati; sporidia di-v. tri-sticha obo-

vata (16-18 × 7-8 μ) superne obtuse inferne acutiuscule acutata, 1-septata, non v. vix constricta, loculo supero ovoideo-subhemisphaerico subbreviore, infero conoideo acuto sublongiore, hyalina (an demun fuliginea?). Species nobilissima *S. guaraniticae* Speg. peraffinis, a qua tamen recedit peritheciis eximie prominulo-radiatis, ascis brevioribus, paraphysibus apice olivascentibus ac sporidiis nonnihil longioribus. Huc certe *Actidium Hänkei* F. Nees et facillime etiam *Parmularia Styracis* Lév. spectant.

HYSTERIACEAE Cda.

379. Rhytidhysterium brasiliense Speg. — Sacc., l. c. f. 759.
Hab. Ad ramos dejectos putrescentes in nemorosis prope *Iguapé*, 10 Oct. 1877 (sub n. 1444).

380. Rhytidhysterium viride Speg. — Sacc., l. c. f. 759.
Hab. Ad cortices adhuc viventes lichenibus tectas prope *Faxina*, Jun. 1880 (sub n. 1230).

381. Lophodermium maculare (Fr.) DNtrs. — Sacc., l. c. f. 791.
Hab. Ad folia coriacea dejecta putrescentia in sylvis prope *Apiahy*, Dec. 1882 (sub n. 2928).
Obs. Specimina brasiliensia nonnihil a typo recedunt, an nova species? Maculae indeterminatae amphigenae albo-pallescentes sparsae majusculae (5-15‴ dm.); perithecia in centro macularum laxe aggregata ellipsoideo-linearia (0,5-1‴ lg. × 150-250 μ lt.) utrinque acutiuscule rotundata erumpenti-innata, superne acutiuscula longitudinaliter rimosa, atra glabra opaca contextu indistincto; asci cy-

lindracei (90-100 × 5-6 μ) apice rotundati deorsum modice attenuato-pedicellati octospori, paraphysibus filiformibus apice rectis v. vix flexuosulis saepeque subramulosis obvallati; sporidia lineari-filiformia (70-80 × 1 μ) utrinque acutiuscula, dense subimperspicueque septulata hyalina.

DISCOMYCETEAE Fr.

382. Neolecta flavo-virescens Speg. — Fung. arg. pug. IV, n. 212.

Hab. In nemorosis uliginosis inter folia ramentaque coacervata, prope *Apiahy*, Jul. 1881 (sub n. 1544).

383. Peziza Balansae Speg. — Fung. guar. pug. I, n. 309.

Hab. Ad ramenta lignea putrescentia muscosa in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1659 et sine n.)

Obs. Specimina brasiliensia a typo omnibus partibus nonnihil majoribus vix deflectunt; cupulae 2-10‴ dm.; pili 250-350 × 20-25 μ; asci in parte sporif. 120-150 × 15 μ, in ped. 70-80 × 5-10 μ; sporae ellipsoideae 18-22 × 14-15 μ non v. grosse 1-guttulatae. Species *P. umbrarum* Fuck. affinis, sed satis ab ea distincta.

384. Peziza apiahyna Speg. — Fung. arg. pug. IV, n. 221.

Hab. Ad cortices dejectos putrescentes in nemorosis prope *Apiahy*, Apr. 1881 (sub n. 998).

385. Peziza hematochlora Speg. — l. c. n. 216.

Hab. Ad ramos corticatos dejectos in nemorosis prope *Apiahy*, Aut. 1881 (sub n. 1555).

386. Peziza coriacella Speg. (n. sp.)

Diag. Ascomata discoideo-turbinata sessilia marginata integra, hypothecio glabro olivaceo, epithecio albo-pallescente; asci clavulati octospori paraphysati; sporidia fusoideo-navicularia utrinque acutiuscula hyalina.

Hab. In disco truncorum putrescentium in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2351).

Obs. Cupulae (1-3''' dm.) hinc inde dense aggregatae inferne leniter turbinato-convexae, puncto centrali adfixae, superne applanatae non v. vix concavae, marginatae integrae, in sicco hysteroideo-v. trigono-involutae, extus glabrae laeves olivaceae vix fibrilloso-rugulosae, epithecio subceraceo albo-pallescente laevissimo; asci e clavato fusoidei (70 × 7 μ) apice acutiuscule rotundati deorsum attenuati modice pedicellati octospori paraphysibus filiformibus parcis apice incrassato-capitulatis subcoalescentibusque obvallati; sporidia oblique monosticha fusoidea (10-12 × 3 μ) utrinque acutiuscula recta v. subnavicularia continua hyalina. Obturaculus ascorum punctiformis iodi ope coerulescens.

387. Pezicula guttiformis Speg. (n. sp.)

Diag. Ascomata gregaria v. sparsa lenticularia, epithecio coccineo, extus pallidiora non v. vix subpruinulosa; asci clavulati paraphysati; sporidia ellipsoidea hyalina.

Hab. Ad folia viva *Galii* speciei cujusdam prope *Apiahy*, Jun. 1888 (sub n. 2762-2905).

Obs. Cupulae amphigenae v. saepius epiphyllae, rarius caulogenae, sparsae v. hinc inde plus minusve dense gregariae, in vivo e globoso lenticulares (180–250 μ dm.), in sicco globuloso-contractae, ceraceo-molles, epithecio coccineo-subsuccineo glabro laevi, hypothecio pallescente non v. vix pruinuloso, contextu aurantio carnosulo indistincto; asci clavulati (50 × 8 μ) apice obtusiuscule rotundati postice cuneato-attenuati breviter crasseque stipitati paraphysibus filiformibus apice incrassatulis parcis

obvallati octospori; sporidia ellipsoidea (10×4 μ) recta v. leniter inaequilateralia utrinque obtusa oblique monosticha v. recte disticha hyalina. Iode ope nulla. Inter ascomata subiculum mucedineum tenuissimum heterogeneum (*aspergilli* cujusdam?) saepe adest!

388. Chlorosplenium Puiggarii Speg. — Fung. arg. pug. IV, n. 226.
Hab. Ad truncos ramosque decorticatos putrescentes in nemorosis prope *Apiahy*, Aut. 1881 (sub n. 1490-1556).

389. Phaeopeziza Puiggarii Speg. — l. c. n. 220.
Hab. Ad ramenta putrida coacervata in sylvis prope *Apiahy*, Jun. 1881 (sine n.).

390. Niptera? melioloides Speg. (n. sp.)
Diag. Ascomata orbicularia minuta tenuiter carnosula atra glabra; asci cylindracei paraphysati; sporidia clavulata didyma hyalina.
Hab. Ad folia *Ipomeae* in subiculo *Asterinae pseudopelliculosae* Speg. parasitans in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2848).
Obs. Cupulae minutulae sparsae v. hinc inde laxe aggregatae superficiales discoideae (200-250 μ dm.) superne applanatae inferne vix convexulae, hypothecio atro glabro, epithecio pallidiore ceraceo-olívaceo, obtuse submarginatae, contextu prosenchymatico-indistincto olivaceo; asci e cylindraceo obclavulati (40×8-10 μ) apice subtruncato-rotundati postice cuneato-attenuati brevissime pedicellati octospori, paraphysibus longioribus apice clavatis olivascentibus subcoalescentibusque obvallati; sporidia recte v. oblique disticha elongato-obovata (10-11×3-4 μ) superne obtuse inferne acutiuscule rotundata primo di-

blasta, dein medio 1-septata constrictula, hyalina (an demum olivascentia?). Iodi ope nulla.

391. Gorgoniceps leucophaeus Speg. (n. sp.)

Diag. Ascomata sessilia discoideo-cupulata extus aterrima, epithecio alba; asci cylindraceo-subclavulati parce paraphysati; sporidia ascorum longitudine lineari-fusoidea continua hyalina.

Hab. Ad corticem putrescentem truncorum in sylvis prope *Apiahy*, Aut. 1888 (sine n.).

Obs. Cupulae hinc inde aggregatae v. rarius sparsae superficiales in vivo cupulato-explanatae (1-3''' dm.) in sicco contracto-involutae, sessiles, durae coriacellae hypothecio aterrimo laevi glabro subnitente, epithecio albo v. vix subroseo laevissimo; asci cylindraceo-clavulati ($200 \times 8 \mu$) apice rotundati deorsum longiuscule attenuato-pedicellati octospori, paraphysibus filiformibus vix longioribus flexuosis obvallati; sporidia fusoideo-linearia (150–$160 \times 1,5$-2μ) utrinque acutiuscula, ascorum fere longitudine, continua v. subimperspicue septulata hyalína. Iode ope nulla.

392. Godronia splendida Speg. (n. sp.)

Diag. Ascomata sparsa erumpenti-superficialia scutellato-discoidea marginata, carnoso-coriacella extus atra glabra rugulosa, disco laevissimo pulchre aurantiaco; asci cylindracei paraphysati; sporidia filiformia ascorum longitudine hyalina.

Hab. Ad ramos corticatos emortuos in sylvis prope *Apiahy*, Oct. 1888 (sub n. 2919.)

Obs. Cupulae per peridermium erumpentes mox subsuperficiales scutellato-discoideae (2-3''' dm.) in vivo explanatae in sicco non v. vix anguloso-subcontractulae, epithecio applanato v. concaviusculo ceraceo laevissimo pulchre

aurantiaco, hypothecio coriaceo aterrimo opaco glabro ruguloso margine prominulo integro v. minute irregulariterque denticulato-lacero; asci cylindracei (200-230 × 10 μ) apice subtruncati, tunica non v. vix subincrassata, deorsum longe attenuato-pedicellati octospori, paraphysibus densis filiformibus hyalinis apice ramulosis ac dense mucoso-coalescentibus aurantiaco-granulosis obvallati; sporidia filiformia tenuissima (150-180 × 1) continua hyalina.

393. Calloria brasiliensis Speg. (n. sp.)

Diag. Ascomata orbiculari-effusa mediocria rubro-aurantia tenuia; asci cylindraceo-clavulati parce paraphysati; sporidia elliptico-fusoidea utrinque acuta hyalina.

Hab. In tela dejecta putrescente in hortis prope *Apiahy*, Aut. 1888 (sub n. 2335-2781).

Obs. Cupulae sparsae v. hinc inde gregariae saepeque confluentes, orbiculares (2-5‴ dm.) collabescenti-effusae tenuiter submembranaceae margine integrae, strictissime liberae, glaberrimae levissimae, in sicco non v. vix contractulae aurantio-rubrae; asci cylindracei (45-50 × 4 μ) apice truncato-rotundati deorsum longiuscule attenuato-pedicellati octospori, paraphysibus, parcissimis filiformibus obvallati; sporidia oblique monosticha elliptico-fusoidea (5 × 1-1,5 μ) utrinque acuta saepeque 1-guttulata continua hyalina. Iode ope nulla.

394. Stictis radiata Pers.

Var. *intermedia* Speg. — Fung. arg. pug. IV, n. 231.

Hab. Ad caules herbaceos dejectos putrescentes in pratis prope *Apiahy*, per ann. 1888 (sub n. 2622).

395. Stictis quadrifida Lév. — Speg., Fung. arg. pug. IV, n. 230.

Hab. Ad folia dejecta putrescentia *Drymidis* speciei cujusdam in sylvis prope *Apiahy*, per ann. 1881-88 (sub n. 1541-2715).

396. Schizoxylon bambusinum Speg. (n. sp.)

Diag. Ascomata infossa, margine erumpenti-prominulo albo integro, disco plano olivaceo minuto; asci cylindracei paraphysati; sporidia ascorum longitudine in articulis subcuboideis mox secedentia chlorinula.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in uliginosis prope *Apiahy*, Maj. 1888 (sub n. 2386).

Obs. Cupulae hinc inde pauci-aggregatae v. rarius sparsae, primo globosae immersae mox cupulato-apertae, erumpentes, margine prominulo integro candido, disco (400-600 μ dm.) profundiusculo obscure olivaceo laevi; asci subcylindracei (45-50 × 8-9 μ) apice rotundati deorsum cuneati crasse breveque stipitati 8-spori? paraphysibus longioribus tenuibus apice saepe ramulosis obvallati; sporidia fasciculata linearia, jam in asco in articulis elliptico-cuboideis (2 × 1,5 μ) minutis secedentia, chlorina. Iode ope nulla. Species habitu externo *Stictidi radiatae* Prs. simillima.

397. Pseudopeziza phyllachorophila Speg. (n. sp.)

Diag. Ascomata minuta sessilia olivascenti-fusca hypophylla circinantia; asci clavulati paraphysati; sporidia e cylindraceo elliptica hyalina.

Hab. Ad stromata vetusta *Phyllachorae trivialis* Speg. in foliis vivis *Asclepiadeae?* cujusdam prope *Apiahy*, Aut. 1881 (sub n. 1564).

Obs. Cupulae innato-superficiales minutae (300-500 μ dm. subsparsae v. laxe gregariae, in vivo applanato-concavae, in sicco contractulae subglobosae v. subhysterioideae, obtuse marginatae, disco obscure fusco-olivascente laevi, hypothecio olivascenti-testaceo glabro v. subpruinuloso,

contextu indistincto; asci e fusoideo clavulati (80-90 × 8-10 μ) apice obtuse rotundati subcrassiusculeque tunicati, deorsum longiuscule attenuato-pedicellati octospori, paraphysibus filiformibus sublongioribus, apice subcoalescentibus fuscescentibusque obvallati; sporidia saepius oblique monosticha ellipsoidea v. subcylindraceo-ellipsoidea (7-10 × 4-5 μ), utrinque obtuse rotundata continua hyalina. Iode ope nulla. Species pusilla parum perspicua, stromate olivascenti-fuscidulo in illo *Phyllachorae* innato-squarruloso donata.

398. Pseudopeziza sanguinolenta Speg. (n. sp.)

Diag. Ascomata minuta, discoideo-applanata fuscescenti-atra dense gregaria, macula indeterminata epiphylla obscure sanguineo-purpurascente cincta; asci e cylindraceo clavulati paraphysati; sporidia subfusoideo-obovata acutiuscula subinaequilateralia hyalina.

Hab. Ad folia viva *Pleromatis* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2711).

Obs. Maculae orbiculares (2-8''' dm.) epiphyllae indeterminatae obscure sanguineo-purpurascentes, ad hypophyllum vix fusco-manifestae dense gregariae saepeque confluentes; cupulae epiphyllae superficiales (erumpentes?) centro macularum densiuscule aggregatae, in vivo patellari-apertae (250-300 μ dm.), in sicco contractulae, epithecio flavescente laevi, hypothecio atro-fuligineo, minute papilloso-pruinuloso, contextu carnosulo, ambitu subparenchymatico, obscure fuligineo donatae; asci subclavulati (80-90 × 15 μ) apice subattenuati acutiusculeque rotundati deorsum cuneati modice attenuato-pedicellati octospori paraphysibus filiformibus sublongioribus saepe ramulosis obvallati; sporidia fusoideo-clavulata (22-25 × 5-6 μ) leniter inaequilateralia, utrinque acutiuscula, non v. grosse 1-guttulata, recte v. oblique disticha, continua hyalina. Iodi ope nulla.

399. Fabrea? melastomacearum Speg. (n. sp.)

Diag. Ascomata hypophylla saepius laxe circinantia primo fulva dein atra, patellaria minuta glabra; asci clavati dense paraphysati; sporidia elliptica didyma hyalina.

Hab. Ad folia viva *Melastomacearum* in campis prope *Apiahy*, per ann. 1882–88 (sub n. 2757-2931).

Obs. Maculae nullae v. saepius tantum epiphyllae pallescentes orbiculares (5–15''' dm.) indeterminatae; cupulae hypophyllae saepissime in orbe (3–5''' dm.) dispositae rarius inordinatae, innato-superficiales, in vivo lenticulari-patellares (300-500 μ dm.), in sicco subcupulato-contractulae, in prima aetate subsuccineae dein gradatim obscuriores postremo fusco-atrae glabrae laeves opacae; asci clavati (60-120 × 16-20 μ) apice obtuse v. subacutiuscule rotundati crassiuscule tunicati, deorsum attenuati modiceque pedicellati octospori paraphysibus filiformibus apice coalescentibus fuscescentibusque obvallati; sporidia recte disticha v. oblique monosticha, elliptica v. subovoidea (17-20 × 6-9 μ) utrinque subacutiuscule rotundata, recta v. lenissime inaequilateralia, primo continua dense granulosa dein medio 1–septata non v. vix constrictula, loculis subaequilongis (supero subcrassiore) continuis v. 1-pseudoseptatis, (an demun triseptata?) hyalina. Iode ope nulla v. vix obturaculo ascorum perdilute coerulescente. Species pulchella cum *Blitridio ? melastomacearum* Wint. non comparanda.

400. Coccomyces brasiliensis Speg. (n. sp.)

Diag. Maculae albo-pallescentes indeterminatae; ascomata hypophylla quadrata minuta, quadrifido-erumpentia atra glabra; asci cylindracei paraphysati; sporidia filiformia ascorum longitudine septulata hyalina.

Hab. Ad folia coriacea dejecta putrescentia in sylvis prope *Apiahy*, Dec. 1882 (sub n. 2928).

Obs. Maculae amphigenae albo-pallescentes majusculae

(5-15$'''$ dm.) indeterminatae; cupulae hypophyllae in maculis sparsae v. laxe gregariae, applanato-quadratae rarius trigonae (300-600 μ dm.) obtuse angulatae primo tectae dein epidermide cruciatim disrupta cinctae, extus intusque atrae glabrae opacae, contextu parenchymatico subindistincto fusco-fuligineo; asci cylindracei (90-100 × 8-10 μ) sursum rotundati, tunica non v. vix subincrassatula, deorsum modice attenuato-pedicellati paraphysibus apice non v. vix clavulato-incrassatis (1,5-2 μ crs.) obvallati; sporidia filiformia (70-80 × 2 μ) utrinque obtusiuscule acutata, primo dense guttulata dein septulata hyalina.

401. Sphinctrina? candida Speg. (n. sp.)

Diag. Ascomata gregaria turbinato-expansa sessilia v. stipitata, superne applanata, candida coriacea glabra; asci cylindracei paraphysati; sporidia ellipsoidea inaequilateralia hyalina.

Hab. Ad terram argillosam denudatam in pratis prope *Apiahy*, Aut. 1881 (sub n. 1658).

Obs. Cupulae sparsae v. hinc inde dense aggregatae, inferne turbinato-obconicae in stipite plus minusve evoluto (0,5-3$'''$ lg. × 0,5$'''$ crs.) exerto v. terrae infosso producta superne applanato-convexula (1-2$'''$ dm.) immarginata, centro saepe umbilicatula, extus intusque alba coriacea duriuscula, glabra laevia; asci cylindracei (130-140 × 8-10 μ) apice rotundati deorsum attenuati modice pedicellati octospori paraphysibus densiusculis filiformibus subcoalescentibus apice botryoso-granulosis obvallati; sporidia recte v. oblique monosticha elliptica v. ovoidea (18-20 × 4-6 μ) utrinque acutiuscule obtusata recta v. leniter inaequilateralia continua hyalina. Iodi ope paraphyses ac mucus hymenialis leniter coerulescunt. Species pulchella lichenina sed a fungis etiam non satis abhorrens.

402. Calycium peraffine Speg. (n. sp.)

Diag. Ascomata minutissima stipite cylindrico suffulta atra; asci cylindracei paraphysati; sporidia ellipsoidea continua v. 1-septata fuliginea.

Hab. Ad ligna cariosa vetusta in sylvis prope *Apiahy,* Aut. 1888 (sub n. 2602).

Obs. Maculae cinerascenti-albae indeterminatae squarruloso-furfuraceae late irregulariterque expansae; thallus nullus; cupulae subglobosae (250-300 μ dm.) superne subpulverulentae fusco-atrae, inferne applanatae ac in stipite cylindraceo (0,5-1''' lg. $\times$ 60-90 μ crs.) atro laevi opaco glabro productae; asci cylindracei (45-50 $\times$ 3-4 μ) apice subtruncato-rotundati deorsum modice attenuato-pedicellati octospori, paraphysibus filiformibus longioribus vix apice fuscescentibus ac subcoalescentibus obvallati; sporidia suboblique monosticha ellipsoidea (6–7 $\times$ 2,5-3 μ) utrinque obtusiuscula, recta v. leniter inaequilateralia continua v. saepius medio 1-septata non constricta fuliginea. Iodi ope nulla. Species inter *C. magellanicum* Speg. et *C. hyperellum* Ach. vere media, ab utraque tamen satis distincta ; an unius speciei varietates tantum ?

FUNGI IMPERFECTI

SPHAEROPSIDEAE Lév.

403. PHYLLOSTICTA BRASILIENSIS Speg. (n. sp.)

Diag. Maculae epiphyllae griseae determinatae ; perithecia circinantia minuta atra ; sporulae ellipsoideae e hyalino chlorinae.

Hab. Ad folia viva *Zanthoxyleae* v. *Anacardiaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2365).

Obs. Status sporuliferus *Leptosphaeriae brasiliensis* Speg. ;

maculae et perithecia ut in statu ascophoro; sporulae e cylindraceo ellipsoideae (4-8 × 2-3 μ) utrinque obtusae non v. grosse 2-guttulatae e hyalino chlorinae.

404. Phyllosticta melastomacearum Speg. (n. sp.)

Diag. Maculae determinatae amphigenae rufescentes; perithecia membranacea ostiolata atra; sporulae ellipsoideae hyalinae.

Hab. Ad folia viva *Melastomacearum* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2480).

Obs. Maculae amphigenae irregulariter orbiculari-repandae (3-6''' dm.) rufescentes determinatae, zona stricta obscuriore cinctae; perithecia in centro macularum laxe aggregata minutissima (70-80 μ dm.) epidermide velata, atra, tenui-membranacea, parenchymatica ostiolo minuto perforata; sporulae ellipsoideae (4-5 × 1,5-2 μ) utrinque plus minusve obtusae non v. 1-2-guttulatae hyalinae.

405. Phyllosticta? pleromatis Speg. (n. sp.)

Diag. Maculae determinatae amphigenae albo-cinerascentes; perithecia minuta coriacea astoma; sporulae elliptico-fusoideae hyalinae.

Hab. Ad folia viva *Pleromatis* speciei cujusdam in herbosis prope *Apiahy*, Hiem. 1888 (sub n. 2385).

Obs. Maculae amphigenae irregulariter expansae (3-10''' dm.) determinatae, ex albo subcinerascentes zona strictissima fuscescente cinctae; perithecia laxe in maculis aggregata minuta (150-200 μ dm.) epidermide velata adnataque atra coriacella contextu indistincto, astoma per aetatem lacero-dehiscentia: sporulae ellipsoideae v. fusoideae (6-8 × 2,5-3 μ) saepius utrinque acutiusculae non v. 2-guttulatae hyalinae.

406. Phyllosticta aurantiicola (Brk. et C.) Sacc.—Syll. sphrp. et mel. f. 13.

Hab. Ad folia viva *Citri aurantii* in hortis prope *Apiahy*, Aut. 1888 (sub n. 2388 b.).

Obs. Maculae amphigenae subdeterminatae albae zona cinerascente cinctae; perithecia densiuscule gregaria epiphylla atra lenticularia (200-250 μ dm.) coriacella contextu indistincto; sporulae ellipsoideo-clavulatae v. obovatae (7-8 × 3 μ) utrinque obtusiusculae hyalinae; sterigmata non visa.

407. Phyllosticta libertiana Sacc. et March. — Rev. myc. 1885.

Hab. Ad folia viva *Violae odoratae* in hortis prope *Apiahy*, Aut. 1888 (sub n. 2615).

Obs. Maculae amphigenae orbiculares determinatae albae; perithecia centro macularum laxe aggregata minuta (70-80 μ) parenchymatica ostiolata atra; sporulae ellipsoideae utrinque obtusae (4–6 × 2-5 μ) hyalinae.

408. Phyllosticta osteospora Sacc. — l. c. f. 34.

Hab. Ad folia viva *Baccharidis* speciei cujusdam in campis prope *Apiahy*, Aut. 1888 (sub n. 2782).

Obs. Maculae obsoletae rufescentes parvulae; sporulae bacillares (8–10 × 1 μ) utrinque incrassatulae hyalinae.

409. Phyllosticta myrticola Speg. (n. sp.)

Diag. Maculae amphigenae orbiculares candidae determinatae; perithecia minuta membranacea ostiolata; sporulae ellipsoideo-ovoideae hyalinae.

Hab. Ad folia viva *Eugeniae* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2773).

Obs. Maculae sparsae v. rarius aggregato-confluentes parvulae (2-5‴ dm.) arescenti candidae amphigenae zona strictissima superne vinosa inferne subrufescente determinato-cinctae; perithecia epiphylla in centro macularum laxe gregaria lenticularia (80-90 μ dm.) atra epidermide

velata, contextu parenchymatico olivaceo, ostiolo rotundo minuto donata; sporulae ellipsoideae v. obovatae (3–5 × 1-1,5 μ) utrinque obtusae ac minute 1-guttulatae hyalinae.

410. Phyllosticta lantanoides Pk.

Hab. Ad folia viva *Viburni* speciei cujusdam cultae in hortis prope *Apiahy*, Aut. 1888 (sub n. 2367-2482).

Obs. Maculae sparsae orbiculares v. angulosae (2–5''' dm.) superne determinatae ex albo argenteae, purpureo-v. sanguineo-cinctae, inferne subindeterminatae rufescentes fusco-cinctae; perithecia epiphylla in centro macularum laxe aggregata lenticularia (150-180 μ dm.), epidermide velata atra coriacella contextu indistincto olivaceo, ostiolo parvulo rotundo perforata; sporulae ellipsoideae (5–7 × 2–2,5 μ) utrinque attenuato-obtusatae non v. 2–guttulatae hyalinae.

411. Phoma cocophila Speg. (n. sp.)

Diag. Maculae albae irregulares; perithecia lenticularia parenchymatico-membranacea; sporulae elliptico–obovatulae hyalinae.

Hab. Ad petiolos longuidos *Cocöes* speciei cujusdam in campis propre *Apiahy*, Aut. 1888 (sub n. 2456).

Obs. Maculae candidae elongatae repando–sinuosae subindeterminatae (5-20''' lg. × 2-5''' lt.); perithecia in maculis laxe gregaria epidermide velata non v. vix prominula atra lenticularia (250 μ dm.) membranaceo-subcoriacella, contextu parenchymatico parum distincto, ostiolo vix papillulato donata; sporulae cylindraceae v. ellipsoideo-obovatae (8–10 × 2,5-3 μ) rectae v. vix subinaequilaterales utrinque obtusiusculae ac saepe minute 1-guttulatae hyalinae, sterigmatibus cylindraceis apice attenuato-obtusiusculis (12-15 × 2-2,5 μ) concoloribus suffultae.

412. Chaetophoma? asterinarum Speg. (n. sp.)

Diag. Perithecia sparsa globosa astoma atra, pilis circinatis adspersa; sporulae cylindraceo-fusoideae chlorinae.

Hab. Ad folia viva plantae ignotae in *Asterina* parasitans prope *Apiahy*, Aut. 1881 (sub n. 1639).

Obs. Mycelium et perithecia ut in *Dimerosporio asterinarum* Speg. cujus statum sporuliferum sistit; sporulae utrinque subtruncatulae (20–22 × 2,2-3 μ) rectae v. leniter inaequilaterales continuae v. rarius 1-pseudoseptatae chlorinae.

413. Chaetophoma microstoma Speg. (n. sp.)

Diag. Perithecia sparsa globulosa atra glabra minute ostiolata; sporulae ellipsoideae hyalinae.

Hab. Ad folia languida *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Hiem. 1881 (sub n. 1507).

Obs. Mycelium ac perithecia ut in *Dimerosporio? microstomo* Speg. cujus statum sporuliferum sistit; sporulae ovoideae v. ellipticae utrinque obtusae (5-6 × 2,5–3 μ) majuscule 2-guttulatae hyalinae.

414. Chaetophoma? perpusilla Speg. (n. sp.)

Diag. Perithecia globoso-ovata atra glabra astoma; mycelium tenuissimum fibrillosum olivaceum; sporulae naviculari-elongatae chlorinae.

Hab. In mycelio *Asterinae pseudopelliculosae* Speg. parasitans ad folia viva *Ipomeae* cujusdam prope *Apiahy*, Aut. 1888 (sub n. 2848).

Obs. Mycelio e fibris tenuibus (2-4 μ crs.) laxe irregulariterque ramulosis parce septulatis olivaceis hyphas *Asterinae* incrustantibus compositum; perithecia sparsa e globoso ovoidea (40–60 μ) superficialia glabra olivacea astoma per aetatem apice irregulariter dehiscentia, tenui-membranacea, contextu parum distincto; sporulae elongato-subnaviculares (10 × 2,5–3 μ) utrinque obtusiusculae continuae chlorinae.

415. Asteromella perpusilla Speg. (n. sp.)

Diag. Maculae epiphyllae pallescentes determinatae; perithecia laxe gregaria superficialia globosa olivaceo-atra; sporulae cylindraceae hyalinae.

Hab. Ad folia viva plantae cujusdam ignotae prope *Apiahy*, Aut. 1888 (sub n. 2703).

Obs. Maculae epiphyllae orbiculares (2–5''' dm.) saepe confluentes sordide subcinerascentes, linea tenuissima rufescente cinctae; perithecia centro macularum laxe aggregata subsuperficialia ex ovoideo globosa (40–50 μ dm.) glabra atra, tenui-membranacea pellucida, contextu indistincto (anhisto?) pallide olivacea astoma, per aetatem superne irregulariter dehiscentia; sporulae cylindraceae (7–8 × 2,5-3 μ) utrinque obtusissimae rectae v. subcurvulae nubiloso-farctae hyalinae.

416. Sirococcus brasiliensis Speg. (n. sp.)

Diag. Maculae nullae; perithecia subepidermica lenticularia atra glabra ostiolata; sporulae ellipticae catenulatae hyalinae.

Hab. Ad folia dejecta putrescentia *Bignoniaceae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2484).

Obs. Perithecia saepius epiphylla sparsa v. hinc inde laxe 3-5–aggregata, non v. vix prominula (150–200 μ dm.) atra, epidermide velata membranacea, contextu parenchymatico parum distincto fuligineo donata, ostiolo rotundo (10 μ dm.) perforata; sporulae e cylindraceo ellipsoideae continuae hyalinae catenulatae.

417. Pyrenochaeta myrtacearum Speg. (n. sp.)

Diag. Maculae orbiculares determinatae albido-v. cinerascenti-arescentes; perithecia laxe gregaria lenticularia ostiolato-barbatula; sporulae e globoso ovoideae hyalinae.

Hab. Ad folia viva *Myrtaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2777).

Obs. Maculae amphigenae orbiculares v. confluendo-irregulares (2-5''' dm.) determinatae arescentes ex albo cinerascentes; perithecia epiphylla in centro macularum laxe gregaria lenticularia (80-90 μ) non v. vix prominula coriacella, contextu indistincto, ostiolo rotundo pilis paucis rigidulis erectis obtusis simplicibus (20–50 × 5 μ) opace fuligineis septulatis coronato donata; sporulae ellipsoideae v. ovoideae v. etiam globosae (2-4 × 2 μ) hyalinae.

418. Vermicularia ? melastomacearum Speg. (n. sp.)

Diag. Maculae cinerascentes determinatae; perithecia epiphylla lenticularia astoma laxe minuteque pilosa; sporulae cylindraceae hyalinae.

Hab. Ad folia viva *Melastomaceae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2756).

Obs. Maculae epiphyllae orbiculares determinatae (2-5''' dm.) sordide ex albo cinerascentes v. rufescentes, zona stricta fusco-rufescente cinctae; perithecia innato-erumpentia lenticularia (80-90 μ) in sicco subcollabescentia atra tenuissime membranacea, contextu parenchymatico-fuligineo, ostiolo destituta, superne setulis paucis cylindraceis rigidulis (30 × 3 μ) simplicibus obtusis base non v. vix incrassatis, 2–3-septatis fuligineis adspersa; sporulae cylindraceae rectae (12-15 × 4 μ) superne obtusae inferne acutiusculae hyalinae.

419. Robillarda ? macropoda Speg. (n. sp.)

Diag. Maculae amphigenae albescentes determinatae; perithecia circinantia gregaria lenticularia irregulariter dehiscentia; sporulae cylindraceae hyalinae continuae apice trifidae v. tri-setulosae longe stipitatae.

Hab. Ad folia viva *Myrtaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2473).

Obs. Maculae orbiculares (5-8''' dm.) sparsae amphigenae albae v. pallidissime subfulvescentes determinatae zona

strictissima obscure rufescente cinctae; perithecia ad marginem macularum densiuscule constipata atra lenticularia (80-100 μ) primo tecta clausa dein erumpentia atque superne irregulariter lacero-dehiscentia prosenchymatica; sporulae subcylindraceae (20 × 2 μ) deorsum lenissime attenuatae apice abrupte trifidae v. 3 setulis divaricatis (20 × 1 μ) crassiusculis coronatae, sterigmatibus longiusculis (30–50 × 1 μ) monosporis simplicibus suffultae.

420. Ascochyta Puiggarii Speg. — Sacc., l. c. f. 391.
Hab. Ad folia viva *Myrtaceae* cujusdam in nemorosis prope *Apiahy*, Aut. 1880 (sine n.).

421. Actinonema rosae (Lib.) Fr. — Sacc., l. c. f. 408.
Hab. Ad folia viva *Rosae* speciei cujusdam cultae in hortis prope *Apiahy*, Oct. 1888 (sub n. 2934).

422. Darluca filum (Biv.) Cast. — Sacc., l. c. f. 410.
Hab. Ad folia viva *Leguminosarum*, socia *Uredine* quadam, in dumetis prope *Apiahy*, Aest. 1888 (sub n. 2720-2767).

423. Couturea biseptata Speg. (n. sp.)
Diag. Perithecia hypophylla gregaria superficialia, mycelio vix ullo atro cincta, globosa astoma nigra; sporulae elliptico-lanceolatae 2-septatae, hyalinae breviter stipitatae.
Hab. Ad folia subcoriacea viva plantae ignotae cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2832).
Obs. Perithecia hypophylla densiuscule gregaria globulosa (100–150 μ dm.) plagulas atras (2–5''' dm.) efficientia, rugulosa, nigra astoma coriacella, contextu indistincto base fibris mycelialibus (obsoletis ?) atris flexuosulis gracilibus (4–6 μ crs.) parcissimis cincta; sporulae ellipticae v. subclavulatae 2-septatae non constrictae, majusculae (40–45 × 14-15 μ) superne obtuse rotundatae inferne subtruncatae, stipite breviusculo (5-10 × 4–5 μ) concolore suffultae

primo hyalinae dein rufescentes. An huc *Meliola cymbisperma* Mntgn.?

424. Septoria aurantiicola Speg. (n. sp.)

Diag. Maculae amphigenae albae determinatae; perithecia spuria? minuta atra; sporulae lineares falcatae hyalinae continuae.

Hab. Ad folia languida *Citri aurantii* in hortis prope *Apiahy*, Aut. 1888 (sub n. 2730).

Obs. Maculae amphigenae irregulariter expansae (3-200''' dm.) candidae determinatae zonula stricta fusco-subatra subnitente cinctae; perithecia in maculis sparsa amphigena globoso-conoidea (120–150 μ) innata atra astoma spuria?, contextu fusco indistincto; sporulae filiformes (40–50 × 2 μ) falcatae utrinque obtusae grosse 1-guttulatae hyalinae.

425. Septoria dianthophila Speg. (n. sp.)

Diag. Maculae nullae; perithecia sparsa lenticularia ostiolata tecta; sporulae subcylindraceae vix curvulae continuae v. 1–septatae hyalinae.

Hab. Ad caules exsiccatos *Dianthi cariophylli* in hortis prope *Apiahy*, Aut. 1888 (sub n. 2591).

Obs. Species *S. sinarum* Speg. et *S. carthusianorum* West. peraffinis, satis, ut videtur, tamen distincta; perithecia lenticularia (70–100 μ) epidermide tecta tenui membranacea parenchymatica atra, ostiolo latiusculo (15 μ dm.) perforata; sporulae e cylindraceo v. subclavulato fusoideae (20–25 × 2,5 μ) utrinque obtusiusculae, continuae v. medio 1-septatae, non constrictae hyalinae.

426. Septoria Puiggarii Speg. (n. sp.)

Diag. Maculae parvulae amphigenae fuscae determinatae; perithecia lenticularia membranacea parenchymatica atra

ostiolata; sporulae obclavulato-fusoideae arcuatae continuae hyalinae.

Hab. Ad folia viva *Walteriae* speciei cujusdam in pratis propre *Apiahy*, Aest. 1888 (sub n. 2475).

Obs. Maculae orbiculares (1-2''' dm.) v. confluendo irregulares, amphigenae sordide fulvescenti-fuscidulae determinatae, saepius zona obscuriore cinctae; perithecia in macularum centro 3-8-aggregata amphigena epidermide velata atra lenticularia (80-90 μ dm.) tenuissime membranacea, contextu parenchymatico parum distincto fumoso-olivaceo, ostiolo minutissimo perforata; sporulae obclavato-fusoideae (40-60 × 2-2,5 μ) utrinque attenuato-acutatae, valide falcatae continuae hyalinae.

427. Phleospora baccharidicola Speg. (n. sp.)

Diag. Maculae nullae; perithecia hinc inde dense aggregata noduloso-prominula globulosa atra coriacea ostiolata; sporae cylindraceae utrinque obtusissimae rectae v. arcuatae saepius continuae hyalinae.

Hab. Ad folia viva *Baccharidis* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2782).

Obs. Perithecia amphigena hinc inde 5-50-constipata, innato-subsuperficialia, subglobosa (150-180 μ dm.) epidermide velata, atra, coriacea, contextu indistincto, ostiolo subpapillato perforata; sporulae rectae hamatae v. falcatae, cylindraceae v. lenissime subclavulatae (60-100×4-5 μ) apice rotundatae base truncatae, continuae v. rarius 1-2-pseudoseptatae nubiloso-farctae hyalinae.

428. Sphaeronemella mirabilis Speg. (n. sp.)

Diag. Perithecia gregaria v. subfasciculata cylindracea cinnabarina glabra; sporulae ellipsoideae v. ovoideae hyalinae.

Hab. Ad cortices dejectos putrescentes in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1552).

Obs. Species pulchella habitu *Stilbum cinnabarinum* capitulo

orbatum simulans; perithecia hinc inde 3–20 gregaria, cylindracea (2–3''' lg. × 250-300 μ crs.) saepe base confluentia, rarissime sparsa, erecta v. subarcuata teretia sursum attenuata apiceque obtusa, pulchre intenseque cinnabarina v. sanguinea, deorsum fuscescentia laevia glaberrima coriacella, contextu carnosulo indistincto; sporulae ellipticae v. ovoideae (2,5-4 × 1–1,5 μ) continuae hyalinae, sporophoris filiformibus (6–10 × 1 μ) monosporis concoloribus, cavitatem internam peritheciorum vestientibus suffultae. Species simillima specimini sterili, sub nomine *Psilopeziae mirabilis* B. et C., mihi a Clar. Wrightio misso; an identica?

429. Leptostroma myrtinum (Dur. et Mntgn.) Speg. — Sacc., f. 629 (sub *Leptothyrio*).

Hab. Ad folia dejecta putrescentia *Myrtaceae* cujusdam in nemorosis prope *Apiahy*, Aut. 1880 (sine n.).

Obs. Perithecia coriacella tecta contextu indistincto, idcirco melius *Leptostroma*?

430. Leptothyrium zonatum Speg. (n. sp.)

Diag. Perithecia hypophylla sparsa superficialia scutato-dimidiata, astoma membranacea contextu prosenchymatico-radiante zonato; sporulae ellipticae v. ovoideae hyalinae.

Hab. Ad folia viva *Myrtaceae* cujusdam in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 2838).

Obs. Perithecia majuscula (400–600 μ dm.) tenui, membranacea scutato-adfixa applanata, non v. vix papillato-prominula atra glabra margine integra v. vix crenato-repanda, matrici arctiuscule adnata, contextu olivaceo pellucido prosenchymatico-radiante undulato-zonato; sporulae ellipsoideae (4–5 × 2 μ) eguttulatae hyalinae, sterigmatibus longiusculis gracillimis (20–25 × 1) concoloribus ramulosis suffultae.

431. Leptothyrium subzonatum Speg. (n. sp.)

Diag. Perithecia hypophylla sparsa superficialia scutato-dimidiata astoma membranacea prosenchymatico-radiantia zonulata ; sporulae cylindraceae hyalinae.

Hab. Ad folia viva *Myrtaceae* cujusdam in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 2343).

Obs. Species priori simillima, peritheciis vix minoribus (200-250 μ), sporulis cylindraceis (4 × 1 μ) utrinque truncato-rotundatis eguttulatis, sterigmatibus brevioribus (10-15 × 1 μ) recedens. An ejusdem tantum varietas?

Trichopeltulum Speg. (n. gen.)

Char. Mycelium e fibris pro ratione majusculis membranaceo-applanatis vittaeformibus non costatis dendritico-ramulosis prosenchymatico-contextis eflormatum; perithecia superficialia v. fibris tecta dimidiato-scutata parvula ostiolata; sporulae continuae hyalinae. Status sporuliferus *Trichopeltidis*.

432. Trichopeltulum pulchellum Speg. (n. sp.)

Diag. Vittae mycelii membranaceo-pellucidae prosenchymaticae olivaceae laxe ramoso-intricatae longiusculae atque latiusculae; perithecia pusilla ostiolo rotundo perforata; sporulae hyalinae minutissimae utrinque subtruncatae continuae.

Hab. Ad folia viva *Myrtacearum* in dumetis prope *Apiahy*, Hiem. 1888 (sub n. 2364).

Obs. Species statum sporuliferum *Trichopeltidis pulchellae* Speg. sistens; mycelium et perithecia ut in statu ascophoro ; sporulae cylindraceae (4-6 × 1 μ) utrinque subtruncato-rotundatae rectae v. lenissime inaequilaterales continuae.

433. Sacidium ?? brasiliense Speg. (n. sp.)

Diag. Perithecia hemisphaerica minuta atra superficialia

anhista ; sporulae e globoso ellipticae continuae e chlorino hyalinae.

Hab. Ad folia viva *Polygoni* speciei cujusdam in uliginosis prope *Apiahy*, Aut. 1888 (sub n. 2618).

Obs. Maculae nullae ; perithecia sparsa epi- (rarius hypo-) phylla e lenticulari hemisphaerica (250-300 μ dm.) atra glabra laevia astoma subcoriacella, contextu anhisto pellucido fuscescente ; sporulae conglobatae e globoso ellipsoideae (8 × 6-7 μ) crassiuscule tunicatae hyalinae, sub luce refracta chlorinae. *Sacidii* species haec et aliae perplurimae (*S. spegazzinianum* Sacc., *S. venetum* Speg., *S. ulmariae* Sacc. et Roum., *S. chartarum* Sacc. et Pnz.) *sine dubio ullo delendae, nam sporangia Pilobolorum expulsa tantum sistunt !*

434. Asterostomella peraffinis Speg. (n. sp.)

Diag. Subiculum et perithecia ut in statu ascophoro ; sporulae obovatae continuae fuligineae.

Hab. Ad folia viva *Asclepiadeae* cujusdam in sylvis prope *Apiahy*, Apr. 1888 (sub n. 2861).

Obs. Species statum sporuliferum *Asterinae peraffinis* Speg. sistens ; sporulae dense constipatae ovoideae (12-15 × 8-10 μ) eguttulatae fuligineae.

435. Lasmenia brasiliensis Speg. (n. sp.)

Diag. Stromata et loculi ut in statu ascophoro ; sporulae discoideae 1-guttulatae fuligineae.

Hab. Ad folia viva *Myrtaceae* v. *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2859).

Obs. Species statum sporuliferum *Phyllachorae brasiliensis* Speg. sistens ; sporulae applanato-discoideae (6-8 μ dm.) inferne saepius apiculatae 1-guttulatae subopace fuligineae.

436. Lasmenia subcoccodes Speg. (n. sp.)

Diag. Stromata ut in statu ascophoro; sporulae discoideae fuligineae.

Hab. Ad folia viva *Leguminosae* scandentis cujusdam in dumetis prope *Apiahy*, Maj. 1888 (sub n. 2841).

Obs. Species statum sporuliferum *Roussöellae subcoccodis* Speg. sistens.

437. Melophia phyllachoroides Speg. — Fung. guar. pug. I, n. 360.

Hab. Ad folia viva *Oplismeni* speciei cujusdam in nemorosis prope *Apiahy*, Aest. 1888 (sub n. 2563).

Obs. Sporulae subclavato-fusoideae (20–28 × 3 μ) leniter falcatae continuae hyalinae.

438. Melophia sapindacearum Speg. (n. sp.)

Diag. Maculae nullae v. indeterminatae pallescentes; stromata epiphylla minuta innata applanata atra opaca; loculi dense constipati pusilli; sporulae filiformes continuae hyalinae.

Hab. Ad folia viva *Sapindaceae* cujusdam in nemorosis prope *Apiahy*, Aut. 1881 (sub n. 1557).

Obs. Stromata epiphylla innato-subsuperficialia atra opaca orbiculari-applanata (2–3‴ dm.) non v. vix papillulosa; loculi globosi (120-180 μ dm.) dense constipati albo-farcti; sporulae filiformes (20–40 × 1–1,5 μ) utrinque obtusiusculae rectae v. flexuosulae, rarius subfalcatae continuae hyalinae.

Coniothyriella Speg. (n. gen.)

Char. Perithecia minuta innata cupulato-aperta margine setulosa; sporulae ellipsoideae olivaceae continuae.

439. Coniothyriella phyllostictoides Speg. (n. sp.)

Diag. Maculae orbiculares determinatae amphigenae; perithecia innata minuta atra primo tecta dein erumpenti–

aperta margine setulosa; sporulae ellipsoideae fuligineo-olivaceae.

Hab. Ad folia viva coriacea *Maytheni* speciei cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2766).

Obs. Maculae orbiculares (2–5''' dm.) determinatae superne candidae inferne saepius sordide fulvescentes, saepius zona latissime purpurascente cinctae; perithecia in maculis laxe sparsa epiphylla lenticularia (100–150 μ dm.) primo epidermide velata dein erumpenti-libera subpatellaria atra, margine setulis (100-150 × 5 μ) paucis fumosis teretibus acutiusculis 3–5–septatis mox deciduis ornata, subcarnosula, contextu parenchymatico fumoso-olivascente donata; sporulae in superficie epithecii dense constipatae, ellipsoideae v. subnaviculares (8–10 × 4 μ) utrinque obtusiusculae continuae olivaceo-fuligineae.

ACANTHOTHECIUM Speg. (n. gen.)

Char. Perithecia (an sporidochia ?) superficialia cupulata atra margine setulosa; sporulae cruciato-quadrifidae (X-formes) pluriseptulatae, hyalinae.

Genus perpulchrum inter *Excipulaceas* et *Tubercularieas dematieas* dubium.

440. ACANTHOTHECIUM MIRABILE Speg. (n. sp.)

Diag. Maculae nullae; perithecia minuta epiphylla glomerulata superficialia hispido setulosa atra, epithecio pallescente donata; sporulae subcruciatim quadrifidae ramis falcato oppositis puncto centrali tantum connatis, uno breviore in sterigmate producto donata hyalina.

Hab. Ad folia viva *Zanthoxyleae* cujusdam in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 2845).

Obs. Perithecia hinc inde dense 5–12–constipata, glomerulos orbiculares (1-3''' dm.) setulosos atro-nitentes efficientia, epiphylla subcupulata (350–750 μ dm.) atra carnosula, contextu fusco-olivaceo prosenchymatico-fibroso, fibris

septulatis extus solutis ac fasciculatis setulas atras (100-500 μ lg. × 20 μ crs.) constituentibus, saepeque matrici adnatis repentibusque; sporulae pulcherrimae, quadrifidae, antheris *Graminacearum* simillimae, X-formes, ramulis 2 superis acutis divaricatis (45-50×3 μ) inferis subparallelis brevioribus crassioribusque (25-30 × 4 μ) altero libero altero in sterigmate bifido (bisporo) producto, omnibus 1-septatis, hyalinae.

441. Protostegia pusilla Speg. (n. sp.)

Diag. Maculae amphigenae cinerascentes determinatae angulosae; perithecia lenticularia minuta erumpentia sordide fusca; sporulae filiformes continuae hyalinae.

Hab. Ad folia coriacea dejecta putrescentia in sylvis prope *Apiahy*, Dec. 1882 (sub n. 2928).

Obs. Maculae amphigenae dense sparsae (1-3''' dm.) anguloso-polygonae determinatae (nervulis limitatae) saepe latissime confluentes, superne pallescenti-cinerascentes, inferne fusco-cinereae; perithecia epiphylla in maculis sparsa v. laxe aggregata, primo tecta dein erumpentia, minuta (180-200 μ dm.), in vivo lenticulari-hemisphaerica in sicco cupulata, hypothecio tenuissimo atro, contextu pellucido fuligineo imperspicuo, disco pallescente donata; sporulae lineares flexuosae (30-40 × 1 μ)utrinque obtusiusculae continuae hyalinae e strato proligero carnoso crassiusculo albo oriundae.

MELANCONIEAE Brk.

442.. Gloeosporium? brasiliense Speg. (n. sp.)

Diag. Maculae amphigenae albae determinatae; acervuli

amphigeni densiuscule sparsi minuti fuscescentes; conidia subcylindracea hyalina.

Hab. Ad folia viva *Zanthoxyleae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2473).

Obs. Maculae quandoque centrales orbiculares (3–6''' dm.) quandoque marginales difformes (3–20''' dm.) sordide albae determinatae areola strictissima fusco-purpurascente cinctae ; acervuli epidermide tecti mox erumpentes, perithecio ? (100–120 μ dm.) spurio fuscidulo scutato astomo tecti ; conidia cylindracea v. obovato-cylindracea (2-3 × 1 μ) utrinque obtusissima (an catenulata ?) recta continua hyalina, sterigmatibus mono-v. bi-sporis cylindraceis (5-10 × 1 μ) suffulta.

443. Gloeosporium citricolum Speg. (n. sp.)

Diag. Maculae amphigenae maximae indeterminatae albo-cinerascentes ; acervuli amphigeni laxe gregarii lenticulares minuti fuscescentes ; conidia cylindracea hyalina.

Hab. Ad folia viva *Citri limonii* in hortis prope *Apiahy*, Aest. 1888 (sub n. 2388 *a*).

Obs. Maculae saepe totum folium occupantes arescentes sordide albo-cinereae ; acervuli amphigeni sparsi v. laxe gregarii minuti (200–300 μ dm.) primo tecti dein erumpentes; conidia e cylindraceo obovata (14-18 × 6–7 μ) utrinque obtussime rotundata medio saepe coarctata recta v. leniter inaequilateralia hyalina, sterigmatibus cylindraceis (20–30 × 5 μ) sursum subbattenuatis apice truncatis basin versus subfuscescentibus suffulta.

444. Gloeosporium albi-macula Speg. (n. sp.)

Diag. Maculae orbiculares amphigenae albae determinatae; acervuli minuti epiphylli fusci ; conidia ellipsoideo-obovata hyalina.

Hab. Ad folia subcoriacea plantae cujusdam ignotae in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 1712).

Obs. Maculae majusculae (3-20''' dm.); acervuli subconoidei (120–150 μ) dense sparsi, primo epidermide velati dein erumpentes; conidia ellipsoidea v. obovata utrinque obtusiuscula (14–16 × 6–7 μ) continua nubilosa.

445. Gloeosporium urediniforme Speg. (n. sp.)

Diag. Maculae minutae indeterminatae pallescentes; acervuli epiphylli minuti fusco-fulvescentes; conidia cylindraceo-obovata hyalina.

Hab. Ad folia non coriacea *Cissi?* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2702).

Obs. Maculae sparsae v. subconfluentes superne fulvescentes inferne fulvo-albidae parvulae (1–2''' dm.) indeterminatae; acervuli in centro macularum dense constipati lenticulares (80–90 μ dm.) fusco-fulvi mox erumpentes, pustulam *Uredinis* cujusdam simulantes; conidia cylindracea v. ellipsoideo-obovata (4-5 × 1 μ) utrinque plus minusve acutata, sterigmatibus vix evolutis papillaeformibus suffulta.

446. Gloeosporium nitidulum Speg. (n. sp.)

Diag. Maculae amphigenae subdeterminatae pallescentes; acervuli minuti epiphylli fusci; conidia obovato-ellipsoidea mediocria hyalina.

Hab. Ad folia viva *Cissi* ? speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2702).

Obs. Species cum priore in eodem folio vigens sed certe distincta longeque abhorrens. Maculae amphigenae orbiculares (2-5''' dm.) utrinque e fulvescente pallescentes; acervuli pauci, in maculis sparsi, e lenticulari conoidei (150–200 μ) mox erumpentes; conidia ellipsoidea (10-12 × 5 μ) utrinque subacutiuscule rotundata ac minutissime subappendiculata (an tunica tantum apiculiformi incrassata, aut loculo minuto spurio ?) continua hyalina, sterig-

matibus cylindraceis (7-10 × 3 μ) concoloribus monosporis suffulta.

447. Trullula olivascens Sacc. — Syll. sphrp. et mel. f. 731.
Hab. Ad petiolos putrescentes *Cocöes* cujusdam in campis prope *Apiahy*, Aest. 1888 (sub n. 2456).
Obs. Conidia cylindracea (4–8 × 2,5–3 μ) utrinque truncata, chlorina.

448. Trullula phyllostictoides Speg. (n. sp.)
Diag. Maculigena; acervuli sparsi minuti olivacei; conidia cylindracea sterigmatibus simplicibus suffulta, chlorina.
Hab. Ad folia viva *Myrtaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2777).
Obs. Maculae amphigenae orbiculares determinatae superne cinerascenti-albidae inferne subfulvescentes; acervuli hemisphaerici (180-200 μ dm.) primo tecti dein erumpentes sparsi olivacei; conidia cylindracea (4–5 × 2 μ) utrinque truncata catenulata subolivacea, sterigmatibus simplicibus (15–20 × 1 μ) dense fasciculatis suffulta.

449. Melanconium phyllostictoide Speg. (n. sp.)
Diag. Maculae amphigenae majusculae sordide fulvescentes determinatae; acervuli minuti sparsi atri; conidia discoidea e latere compressa subopace fuliginea.
Hab. Ad folia viva *Zanthoxyli* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sub n. 2764).
Obs. Maculae irregulariter orbiculares (5–20''' dm.) saepe confluentes ac totum fere folium occupantes, determinatae sordide fulvo-fuscescentes areola strictissima rufescenti-fusca cinctae; acervuli amphigeni dense in maculis sparsi e lenticulari conoidei (200 μ dm.) primo tecti mox erumpentes atri; conidia e fronte discoidea (6-8 μ dm.) e latere compressa 1-guttulata fuliginea. Species pulchella conidiis, *Lasmeniarum* sporulis simillimis!

450. Pestalozzia versicolor Speg.
Var. *americana* Speg. — Fung. arg. pug. IV, n. 310.
Hab. Ad folia languida v. emortua *Drymidis* ac *Bignoniae* cujusdam in nemorosis prope *Apiahy*, per ann. 1881–88 (sub n. 1629–2484).

451. Cylindrosporium septorioide Speg. (n. sp.)
Diag. Maculae orbiculares fulvescentes determinatae ; acervuli minuti erumpentes ; conidia filiformia 3-5–septulata hyalina.
Hab. Ad folia subcoriacea *Hireae* speciei cujusdam in nemorosis prope *Apiahy,* Aut. 1888 (sub n. 2366).
Obs. Maculae orbiculares (1-2''' dm.) fulvescentes determinatae areola latiuscula sanguineo–purpurea cinctae sparsae ; acervuli amphigeni in centro macularum 3–10–aggregati primo tecti dein erumpentes lenticulares (60–80 μ dm.) fusciduli ; conidia filiformia [superne saepe subattenuata utrinque acutiuscula (30–40 × 2 μ) recta v. subcurvula, 3-5–septata, ad septa non constricta, hyalina.

HYPHOMYCETEAE Mart.

452. Chromosporium fulvum (B. et C.) Sacc. — Syll. hyph. f. 6.
Hab. Ad cortices dejectos putrescentes muscosos in sylvis prope *Apiahy*, per ann. 1881–82 (sub n. 1562–2348).
Obs. Effusum v. hinc inde glomeruloso–pulvinatum pulverulento–compactiusculum, in juventute fulvo–ferrugineum per aetatem subcinnamomeum ; hyphae repentes graciles (6 μ crs.) densiuscule intricato–ramulosae septulatae, non evanescentes ; conidia obovata (18–30 × 10-20 μ) rarius

subglobosa majuscule 1-guttulata laevia, pulchre fulvo-cinnamomea.

453. Oidium erysiphoide Fr. — Sacc., l. c. f. 41.

Hab. Ad folia viva *Verbenae scopariae* in campis prope *Apiahy*, vere 1888 (sub n. 2458).

Obs. Conidia cylindracea (20–25 × 12-15 μ) utrinque subtruncato-rotundata laevia hyalina.

454. Verticillium? lichenicolum Speg. (n. sp.)

Diag. Acervuli minuti candidi; hyphae alterne ramosae, ramulis 1–v. 2-dichotomis, apice verticillato-sterigmatophoris; conidia ellipsoideo-hyalina.

Hab. In margine apotheciorum *Physciae* et *Peltigerae* cujusdam, Hiem. 1880 (sub n. 127).

Obs. Acervuli gossypino-compactiusculi gregarii saepeque confluentes globuloso-difformes (250-400 μ dm.); hyphae primariae erectae (120–200 × 4-5 μ) septulatae hyalinae alterne ramosae; ramuli solitarii v. geminati (30–60 × 3 μ) divaricatuli semel v. bis dichotomi; ramuli apice 3 sterigmatibus subampulluliformibus (7–8 × 3 μ) coronati; conidia in sterigmatibus acrogena solitaria ellipsoideo-obovata (4-5 × 2,5 μ) continua hyalina.

455. Verticillium? enecans Speg. (n. sp.)

Diag. Candidum tenue; hyphae subrepentes flexuose alterniramosae, apice 3-9 sterigmatibus ampulluliformibus coronata; conidia subellipsoidea hyalina.

Hab. In *Agarico* quodam pusillo ad corticem indeterminatum prope *Apiahy*, Aut. 1881 (sub n. 1643).

Obs. Hyphae graciles (3–4 μ crs.) subcontinuae dense gossypinulo-intertextae totam matricem vestientes base repentes antice subexsurgentes alterni-ramosae hyalinae; ramuli breviusculi (50–80 × 3 μ) divaricatuli continui; sterigmata in apice ramulorum verticillata monospora;

conidia ex obovato ellipsoidea (4-5 × 2 μ) saepe grosse 2-guttulata continua hyalina.

456. Didymaria muscigena Speg. (n. sp.)

Diag. Candida, gossypinula; hyphae longiusculae atque crassiusculae, parce ramulosae apice obtusae; conidia cylindracea utrinque obtusa 1-septata hyalina.

Hab. Ad urnas languidas *Rhyncostegii* speciei cujusdam in nemorosis prope *Apiahy*, Aut. 1880 (sine n.).

Obs. Hyphae hyalinae laxe septulatae (100–250 × 10 μ) dense intertextae apice monosporae; conidia cylindracea v. subclavulata (40–60 × 7-10 μ) medio 1-septata, non constricta, nubiloso-farcta hyalina.

457. Helicotrichum olivaceum Speg. (n. sp.)

Diag. Coespituli maculiformes effusi olivacei; hyphae erectae apice circinatae fusco-olivaceae laeves; conidia cylindracea hyalina.

Hab. Ad folia dejecta putrescentia *Drymidis* speciei cujusdam in nemorosis prope *Apiahy*, Aut. 1889 (sub n. 1540).

Obs. Coespituli compactiusculi irregulariter lateque (1–10‴ dm.) effusi, applanati; hyphae dense constipatae deorsum opacae erectae apice plus minusve circinatae (50–80 × 3-4 μ) pellucidae fusco-olivaceae v. subfuligineae, laevissimae; conidia e strato proligero tenuissimo fusco inter bases hypharum oriunda, e cylindraceo fusoidea (12 × 1,5 μ) apice acutiuscula, base subtruncata continua hyalina.

458. Circinotrichum maculiforme Nees. — Sacc., l. c. f. 315.

Hab. Ad folia dejecta putrescentia in sylvis prope *Apiahy*, Aut. 1888 (sub n. 2716).

459. Cercospora rosicola Pass. — Sacc., l. c. f. 460.

Hab. Ad folia viva *Rosae centifoliae* in hortis prope *Apiahy*, Aut. 1881 (sub n. 1548).

460. Cercospora hyptidis Speg. (n. sp.)

Diag. Maculae amphigenae fulvescentes subdeterminatae; coespituli laxe gregarii subpenicilliformes olivacei; conidia bacillari-clavulata multiguttulata hyalina.

Hab. Ad folia viva *Hyptidis* speciei cujusdam in dumetis prope *Apiahy*, Aut. 1880 (sub n. 2477).

Obs. Maculae subarescentes irregulariter expansae saepe confluentes (5-20''' dm.) sordide fusco-fulvescentes subdeterminatae; coespituli saepius epiphylli in centro macularum laxe aggregati erecti (140-150 × 20 μ) rigiduli, ex hyphis continuis teretibus (5 μ crs.) pellucido-olivascentibus, apice noduloso-incrassatulis ac liberis efformati; conidia acrogena vermiculari-clavulata (25-50 × 4-5 μ) utrinque obtusiuscula rectiuscula 10–12-pseudoseptata, primo hyalina dein fumosa. Species inter *Isariopsidem* et *Cercosporam* media.

461. Cercospora violae Sacc. — l. c. f. 434.

Hab. Ad folia languida *Violae odoratæ* in hortis prope *Apiahy*, Aut. 1888 (sub n. 2615).

462. Cercospora mitracarpi Speg. (n. sp.)

Diag. Maculae sordide fulvescentes indeterminatae subamphigenae; coespituli epiphylli dense constipati olivacei; conidia ellipsoideo-clavulata 3-5-septata pallide fuliginea.

Hab. Ad folia viva *Mitracarpi* speciei cujusdam in campis prope *Apiahy*, Aut. 1888 (sub n. 2607).

Obs. Maculae indeterminatae majusculae saepe totum folium ambientes superne pallescentes inferne fulvescentes saepe obsoletae sed fere semper ad epiphyllum concentrice rugosae; coespituli epiphylli erectuli (80–130 × 28-30 μ) saepe totam maculam obtegentes e 5 v. 20 hyphis laxe

subfasciculatis base tantum conjunctis apice obtusis 3-7-septatis laevibus pellucidis olivaceis efformati; conidia e cylindraceo clavulata (30–40 × 9–14 μ) apice obtuse rotundata base attenuato-truncata 4-6-locularia, loculis saepius nucleo majusculo cruciformi praeditis, laevia, pellucida fuligineo-olivacea.

463. Napicladium Ravenelii (B. et C.) Speg. — Fung. guar. pug. II, n. 193.

Hab. Ad paniculas vivas *Sporoboli* speciei cujusdam in pratis prope *Apiahy*, Aut. 1888 (sub n. 2619).

464. Napicladium anomalum Speg. (n. sp.)

Diag. Pulvinuli epiphylli asteromatoidei fusco-olivacei, hyphis repentibus septulatis ramulosis compositi; conidia fusoideo-falcatula 5–11-septata, in latere concavo tantum constricta, majuscula olivaceo-fuliginea.

Hab. Ad folia coriacea plantae cujusdam ignotae in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1701).

Obs. Hyphae dense intertexto-ramulosae repentes graciles (5 μ crs.) plagulas crustaceas orbiculares (3–5''' dm.) tenuissimas arcte matrici adnatas fusco-olivaceas saepe confluentes epiphyllas efficientes, hyphopodiis destitutae non torulosae vix pellucidae; conidia pleurogena e fusoideo clavulata (80–120 × 10 μ) utrinque attenuata apice acutiuscula base subtruncata leniter falcata, e latere concavum tantum constricta, pellucida fusco-v. fuligineo-olivacea, laevia.

465. Stilbum physaroide Speg. (n. sp.)

Diag. Sparsum v. laxissime subgregarium erumpens; stipes erectus sordide lateritio-cinnabarinus gracilis compressus capitulo globoso-hemisphaerico minuto carneo coronatus; conidia obovata hyalina.

Hab. Ad corticem adhuc virentem arboris cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1560).

Obs. Stipites e cortice erumpentes solitarii v. hinc inde laxe gregarii erecti (1-2‴ lg. × 100-150 μ crs.) rectiusculi rigiduli apicem versus gradatim attenuati compressuli torti; capitulum laeve subglobosum (400-600 μ dm.) inferne applanatum v. subumbilicatum, compactiusculum carneum; conidia laevia ellipsoideo-obovata (6-7 × 3-4 μ) superne obtuse inferne acute rotundata, grosse 1 v. 2-guttulata, hyalina. Species pulchella *Physari* habitu donata.

466. Stilbum cinnabarinum Mntgn. — Sacc., l. c. f. 571.

Hab. Ad cortices vetustos, in consortione *Megalonectriae pseudotrichiae* (A. et S.) Speg., prope *Xiririca* et *Apiahy*, Jan. 1881 (sine n.).

467. Stilbum fusco-cinnabarinum Speg. (n. sp.)

Diag. Solitarium v. parce laxeque aggregatum; stipes erectus fusco-cinnabarinus teres rectus capitulo ovato v. glandiformi fulvo-rubro minuto coronatus; conidia ellipsoideo-ovata hyalina.

Hab. Ad corticem putrescentem arborum, in consortione *Megalonectriae coespitosae* Speg., Aut. 1888 (sub n. 2863).

Obs. Stipites quandoque solitarii quandoque 1 v. 2, in consortione stati ascophori, erecti (2-4‴ lg. × 150-250 μ crs.) rigiduli recti teretes glabri laeves deorsum rubro-testacei sursum fusco-cinnabarini v. sanguinei, simplices, apice capitulo ovato v. glandiformi (400-800 μ dm.) rufo-sanguineo compactiusculo coronati; conidia ex ellipsoideo obovata (4-6 × 3 μ) recta v. leniter inaequilateralia, eguttulata laevia hyalina.

468. Isaria melanopus Speg. (n. sp.)

Diag. Sparsa v. gregaria; stipites erecti teretes coriacei base atri apice pallidi, capitulo clavulato carneo-aurantio coronati; conidia e cylindraceo obovata hyalina.

Hab. Ad corpora putrescentia *Coleopterorum* in truncis cariosis et muscosis prope *Apiahy*, Aut. 1888 (sub n. 2335).

Obs. Species statum conidicum *Cordicipitis australis* Speg. facillime sistens; stipites glabri rectiusculi laeves (1-5''' lg. × 150–200 μ crs.); capitula plus minusve evoluta in stipite decurrentia (0,5–1''' lg. × 250-500 μ crs.) laevia; sterigmata cylindracea (10–15 × 3 μ) apice integra obtusiuscula hyalina; conidia elliptico-v. obovato-cylindracea (5–10 × 3-4 μ) utrinque v. apice tantum rotundata. Species inter *Stilbum* et *Isariam* nutans.

469. Ceratium hydnoide (Jaq.) Alb. et Schw. — Sacc., l. c. f. 596.

Hab. Ad truncos emarcidos cariosos in sylvis prope *Apiahy*, Hiem. 1882 (sub n. 2358).

Obs. Stipites erecti (2–3''' lg. × 0,5''' crs.) apice parce furcato-ramulosi, ramulis gracilibus (30–50 μ crs.) apice obtusis ubique sterigmatibus horizontaliter patulis (5-7 × 1,5 μ) obtusis vestitis; conidia globosa (8 μ dm.) laevia hyalina.

470 Stysanus calycium Speg. (n. sp.)

Diag. Laxe gregarium superficiale atrum; stipites erecti teretes atri, capitulo subgloboso subpulverulento atro-olivaceo coronati; conidia globosa minuta obscure olivacea.

Hab. Ad palos decorticatos putrescentes in hortis prope *Apiahy*, Aut. 1881 (sine n.).

Obs. Species statum conidicum *Calycii peraffinis* Speg. sistens; substratum saepius late dealbatum saepeque minutissime albo-v. hyalino-squarrulosum; stipites recti rigidi-

duli plus minusve elongati graciles (1–2''' lg. × 100-150 μ crs.) laeves ; capitulo superne hemisphaerico inferne subturbinato (200-250 μ dm.) ; conidia e globoso ellipsoidea (4–5 μ dm.) 1-guttulata laevia. An huc *Sporocybe calycioides* Fr.?

471. Podosporium penicillium Speg. — Fung. arg. pug. IV, n. 117 !

Hab. In mycelio *Meliolae calvae* Speg. parasitans ad folia *Laurineae* cujusdam, *Apiahy*, Jun. 1881 (sub. n. 1507).

Obs. Stipites atri sparsi v. laxe hinc inde gregarii erecti (300-400 μ alt. × 25 μ crs.) teretes rigiduli apice abrupte penicillatim ramoso-expansi, e fibris gracilibus (5 μ crs.) arcte coalitis fuligineis parce septulatis laevibus apice liberis (p. lib. 150–160 μ lg.) verruculoso-scabris monosporis efformati; conidia in fibris penicillorum acrogena, cylindraceo-fusoidea (25-30 × 4-5 μ) sursum obtusiuscule attenuata deorsum elongatula, triseptata pallide fuliginea.

472. Tubercularia paraguaya Speg. — Fung. guar. pug. I, n. 423.

Hab. Ad corticem subputrescentem truncorum in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1645).

Obs. Conidia ellipsoidea (6–7 × 3 μ) hyalina.

473. Epicoccum purpurascens Erhb. — Sacc., l. c. f. 736.

Hab. Ad folia coriacea dejecta putrescentia in nemorosis propre *Apiahy*, Aut. 1888 (sub n. 2388 b).

Obs. Sporidochia hemisphaerico-globosa (180-200 μ dm.) fuliginea, macula destituta ; conidia fere hemisphaerica (18-20 μ dm.) subopace fuliginea, episporio crassiusculo minutissime subverruculoso-punctulato, lineis pallidioribus reticulato donata, pedicello brevi turbinato hyalino suffulta.

474. Bizozzeriella phyllogena Speg. — Fung. guar. pug. II, n. 199.

Hab. Ad folia viva *Laurineae* cujusdam in dumetis prope *Apiahy*, Aut. 1881 (sub n. 1614).

Obs. Specimina brasiliensia a guaraniticis nonnihil recedunt; hypothallo magis expanso; lamellis v. denticulis hymenialibus magis evolutis exertisque, zona fertili idcirco pulchre fulvello-villosula v. subhispida; conidia catenulata cylindracea (15–16 × 2,5–3,5 μ) leniter inaequilateralia utrinque obtusa, ac cauda acutissima longiuscula (5–7 μ lg.) aucta.

475. Aschersonia oxyspora Brk. — Sacc., l. c. f. 620.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvis prope *Apiahy*, Aut. 1888 (sine n.).

Obs. Stromata discoidea (1–2''' dm.) armeniaca breviter pulvinulata glabra laevia base hypothallo furfuraceo-flocculoso subradiatim expanso cincta, superne depresso-concava ac subsuccinea, contextu dense fibroso-intricato, fibris subintestiniformibus (2 μ crs.) breviter ramulosis efformato; conidia cylindraceo-fusoidea utrinque caudula breviuscula acutissima aucta (14–15 × 2–2,5 μ), continua hyalina catenulata, catenulis paraphysibus filiformibus rigidulis (60-80 × 1-1,5 μ) concoloribus immixtis. Genus eximie a *Bizozzeriella* distinctum, et melius inter *Tubercularieas mucedineas* quam inter *Nectrioideas* militare debet.

476. Patellina buellioides Speg. (n. sp.)

Diag. Superficialis cupulato-discoidea sporidochio candido epithecio aurantio donata; conidia ellipsoideo-cylindracea hyalina.

Hab. Ad corticem lichenosum adhuc viventem in sylvis prope *Apiahy*, Aut. 1881 (sub. 1665-1704).

Obs. Cupulae pulchellae inter lichenes (an ex illis) erumpentes dein subsuperficiales applanatae primo minute or-

biculares (0,5 — 1 mm dm.) dein magis explanatae irregulariter repandulae, epithecio aurantiaco margine strictissimo sed bene distincto albo cinctae, extus sordide albescentes laeves; sporophorae dense constipatae ac subcoalescentes (20-30 × 1 μ) hyalinae apice acutiusculae monosporae; conidia subcylindracea v. ex obovato ellipsoidea utrinque obtusiuscula (4-6 × 1,5-2,5 μ) continua eguttulata. Species pulchella in juventute praecipue apotheciis *Buelliae* cujusdam simillima.

PATOULLARDIELLA Speg. (n. gen.)

Char. Sporidochium laeticolor ceraceum subdiffluens; sporophora filiformia monospora; conidia acrogena elongata didyma hyalina.

Genus Cl. *N. Patoullard*, eximio mycologo gallico, qui hujus generis natura suspicatus est.

477. PATOULLARDIELLA GUARANITICA Speg. (*Gymnosporangium? guaraniticum* Speg., Fung. guar. pug. I, n. 106. — *Tubercularia Spegazzinii* Pat., Revue myc. 1889, f. 35).

Hab. Ad ramulos et folia viva *Sapindaceae* cujusdam in dumetis prope *Apiahy*, Aut. 1888 (sine n.).

Obs. Pulvinuli primo epidermide tecti longitudinaliter erumpentes, in juventute compactiusculi per aetatem submucoso-diffluentes aurantiaci; sporophorae filiformes praelongae (50-100 × 1-1,5 μ) hyalinae simplices rectae muco junctae; conidia ellipsoideo-elongata v. elongato-subbiconica medio 1-septata non constricta (10-20 × 3-4 μ) hyalina.

478. BACTRIDIUM FLAVUM K. et S. — Sacc., l. c. f. 691.

Hab. Ad ligna folia atque pyrenomycetes majores subputrescentes vulgatum in nemorosis prope *Apiahy*, per ann. 1881-88 (sine n. et sub n. 2345).

Obs. Specimina brasiliensia a typo nonnihil recedunt coni-

diis submajoribus; acervuli pulvinulati, primo compactiusculi subtremelloidei dein subpulverulenti pallide aurantiaci (1–3''' dm. × 1-1,5''' crs.) saepe base subcoarctati substipitati, rarius effusi, plus minusve dense gregarii; conidia clavulata (200–250 × 40-50 μ), 6-7-pseudoseptata non constricta, sporophora longiuscula (80-100 × 10 μ) 1-3-septata suffulta, ex aurantio hyalina. An huc *B. fulvellum* Brk.?

479. Fusarium heterosporum Nees. — Sacc., l. c. f. 707.

Hab. Ad cariopsides languidas *Paspali* speciei cujusdam in pratis prope *Apiahy,* Maj. 1888 (sub n. 2878).

Obs. Acervuli effusi tremelloideo-ceracei pallide aurantio-carnei partem superam cariopsidis hypertrophicae obtegentes; sporophora breviter bis v. ter dichotoma; conidia fusoidea (30–50 × 4–5 μ) leniter falcata utrinque acutiuscula, 3–5-septata hyalina. An varietas?

MYCELIA STERILIA

480. Antennaria heteracantha Speg. (n. sp.)

Diag. Crassa, pannoso-subsuberosa fusco-atra; hyphae repentes crassae, ramulis quandoque spiniformibus rectis quandoque torulosis falcatis.

Hab. Ad corticem arborum viventium in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1577).

Obs. Hyphae crassae (30 μ crs.) repentes dense intricatae, ramulis alternis secundis atro-olivaceis, aliis spiniformibus rigidis acutissimis vix apice pellucidis, aliis conidiiformibus subflaccidulis torulosis, articulis e globoso cuboideis (15 × 15 μ), minute excentrice 1-guttulatis pellucidis. An huc *A. pannosa* Brk.?

Species sub nomine *Fumaginis pannosae* (Brk.), in Fung. fueg. n. 453 edita, est *Fumago scoriadea* (Brk.).

481. ANTHINA? MUSCIGENA Speg. — Fung. arg. pug. IV, n. 364.
Hab. Ad muscos vivos in caudicibus vetustis vulgata prope *Apiahy*, per ann. 1881–88 (sine n. et sub n. 2898).

482. ANTHINA? BRASILIENSIS Speg. — l, c. n. 365.
Hab. Ad ramulos vivos, sociis *hepaticis*, in sylvis prope *Apiahy*, Aut. 1880 (sine n.).

483. HYMANTIA ARGIROLEUCA Speg. (n. sp.)
Diag. Tenuissime membranacea arctissime matrici adnata latissime expansa, indeterminata v. margine crenulato-repanda subfibrillosa ex albo argentea subsericeo-nitens.
Hab. Ad folia *Laurineae* cujusdam dejecta putrescentia in nemorosis prope *Apiahy*, Aut. 1888 (sub n. 2466).
Obs. Status quiescens *Pani hymenorhyzi* Speg.

484. SCLEROTIUM MIRABILE Speg. (n. sp.)
Diag. Epiphyllum conoideum majusculum, extus atrum opacum, intus album sublignosum.
Hab. Ad folia viva *Laurineae* cujusdam in sylvis prope *Apiahy*, Aut. 1881 (sub n. 1614).
Obs. Statum quiescentem *Dothideaceae* cujusdam sine dubio sistens, saepius conoideum ($10'''$ alt. $\times$ 8–$9'''$ lt. bas.) base late matrici innato-adnatum, rarius versiforme; contextus carnis fibrosus, ex hyphis crassis (5–8 μ crs.) dense ramoso-intertextis tenuissime canaliculatis hyalinis efformatus.